

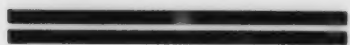
Manitoba
Agriculture



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FOREWORD

This publication is the twenty-fifth in the Yearbook series initiated in 1963. The same format, which includes recent and historical data from 1953, has been continued for the convenience of users. In addition, this issue contains estimates and data converted to the International Standards. The metric conversion factors used are shown in the Sources and Methods Section. Minor changes are also made annually whenever new or more detailed information becomes available. Statistics published in this issue of the Yearbook are based on available information as of July 31, 1988. Any revisions to the 1987 data published will be incorporated in the 1988 issue of this publication. Revisions in previous years' estimates are made as more recent and more accurate data are received.

The census division and crop district boundaries were changed in 1976, and the first small area estimates using new boundaries were made in 1977. These estimates by crop districts are made annually for: a) seeded area and production of wheat, oats, barley, flaxseed, canola (rapeseed) and hay; and b) cattle and hog numbers on farms, as of July 1.

Cooperation between Statistics Canada and Manitoba Agriculture is maintained to secure the best possible agricultural statistics. The assistance of many contributors of information received from other government departments, farm businesses, farmer organizations and farmers is acknowledged. Sincere appreciation is extended to the secretarial staff of the Economics Branch for typing, collating and proofing the manuscript.

The development, compilation and assembly of all material was done by Errol Lewis, Sr. Statistician of the Economics Branch, Manitoba Agriculture.

Suggestions for improving the content of the manuscript can be sent to Statistics Section, Economics Branch, 903 Norquay Building, Winnipeg, Manitoba, R3C 0P8, Phone: (204) 945-3501.

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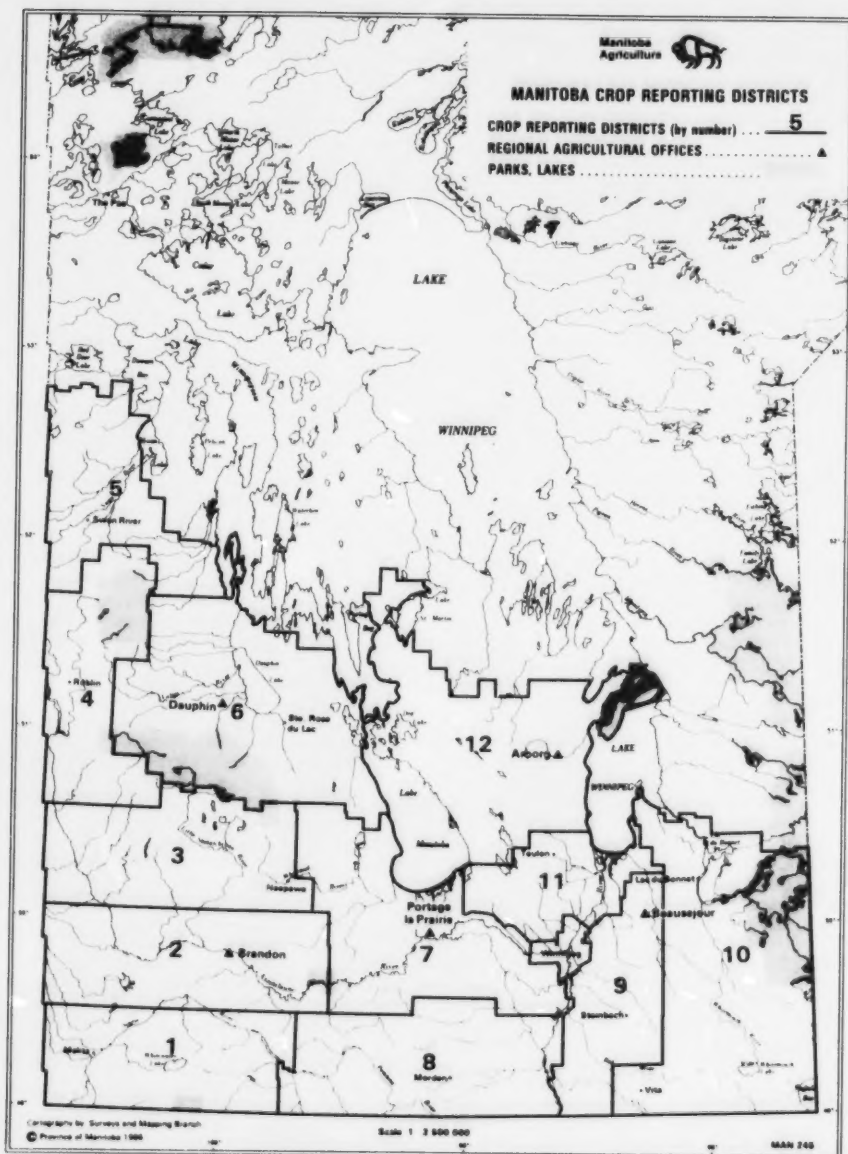
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1987 IN REVIEW

TABLE 1 **Manitoba Agriculture in Perspective —
Relationship to Canadian Agriculture**

	Canada Quantity	Manitoba Quantity	Percent of Canada
Crop Production, 1987	- thousand tonnes -		
Wheat (all)	26 342	3 998	15.2
Oats	2 995	416	13.9
Barley	14 382	1 981	13.8
Flaxseed	788	429	54.5
Canola (Rapeseed)	3 852	590	15.3
	- thousand bushels -		
Wheat (all)	967,943	146,900	15.2
Oats	194,272	27,000	13.9
Barley	660,539	91,000	13.8
Flaxseed	31,000	16,900	54.5
Canola (Rapeseed)	169,800	26,000	15.3
Livestock and Poultry Production, 1986	- 000 -		
Cattle and Calves, June 3	11,997,608	1,114,720	9.3
Sheep and Lambs, June 3	700,935	24,693	3.5
Hogs, June 3	9,756,569	1,071,195	11.0
Egg Production, June 3 (doz.) ¹	443,132	49,251	11.1
Milk and Cream Sales (kl)	7 283 222	291 317	4.0
Livestock Slaughterings, 1987	Number		
Slaughter Cattle and Calves	3,433,079	241,554	7.0
Hogs (Slaughterings)	14,220,695	1,656,814	11.7
Sheep and Lambs	217,955	4,116	1.9
Farm Income, 1987	- thousand dollars -		
Farm Cash Income, 1987	20,883,241	2,073,113	9.9
Cash and Overhead Expenses, 1987	15,609,397	1,537,595	9.9
Farm Realized Net Income, 1987	5,518,901	555,497	10.1
Resources (1986 Census Farms)			
Land in Farms (hectares)	67 825 756	7 740 226	11.4
Improved Land (hectares)	45 009 991	5 403 077	11.7
Land in Farms (acres)	167,601,113	19,126,517	11.4
Improved Land (acres)	113,693,178	13,351,296	11.7
Farm Numbers	293,089	27,336	9.3
Farm Population	930,730	86,505	9.3
Tractors on Farms	728,074	73,945	10.2
Capital Investment, 1987	- thousand dollars -		
Land and Buildings	104,266,724	9,175,292	8.8
Machinery and Equipment	74,148,134	6,123,381	8.3
Livestock and Poultry	20,340,190	2,184,199	10.7
	9,778,400	867,712	8.9

¹ This value reported in the 1986 Census output is for 1985. The number for 1986 is presented on page 8.

1987 VALUE OF FARM PRODUCTION

Manitoba total value of agricultural production in 1987 was estimated at \$1,929.9 million. This represented a 3.3 per cent decline below the revised 1986 value of \$1,995.6 million and 20.7 per cent less than the 1985 value of \$2,434.4 million. The value of crop production was \$1,135.8 million, 5.6 per cent less than in 1986 but 34.1 per cent below the 1985 value of \$1,722.1 million. Lower commodity prices in certain instances and lower production in others counteracted increased production on the one hand and increased prices in other instances.

Livestock production was valued at \$756.4 million, essentially the same as 1986. In this instance, lowered prices for cattle, sheep and lambs were compensated for by increased prices for hogs, poultry and dairy and increased production of hogs and dairy products.

TABLE 2 Gross Value of Agricultural Production (million dollars)

	1985	1986 ^R	1987 ^P
Crops	1,722.1	1,203.3	1,135.8
Livestock and Products	685.0	755.5	756.4
Honey & Wax ¹	13.6	13.1	14.2
Other (Fur, P.M.U., Forest, etc.)	13.7	23.7	23.5
Total	2,434.4	1,995.6	1,929.9

¹ Includes values estimated for alfalfa leafcutter bees for 1985, 1986 and 1987.

R = Revised.

P = Preliminary.

TABLE 3A 1987 Summary of Crop Production

Crop	Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value	
				Per Tonne \$	Total (\$000)
Wheat	1 963.2	2.01	3 946.5	100.00	394,650
Oats	182.0	2.29	416.0	89.50	37,232
Barley	688.0	2.82	1 938.0	62.50	121,125
Flaxseed	324.0	1.25	406.0	195.00	79,170
Canola (Rapeseed)	405.0	1.44	585.0	255.00	149,175
Rye	26.3	1.75	46.0	80.00	3,680
Mixed Grains	32.4	2.53	82.0	61.00	5,002
Grain Corn	20.2	5.40	109.0	92.00	10,028
Field Peas	72.8	1.98	144.2	194.00	27,975
Buckwheat	16.0	1.26	20.2	248.00	5,010
Sunflowerseed	28.3	1.57	44.5	202.00	8,989
Mustard Seed	6.1	1.26	7.7	260.00	2,002
Canary Seed	10.1	1.26	12.7	221.00	2,807
Lentils	24.3	1.53	37.2	296.00	11,011
Forage Seeds	—	—	—	—	14,093
Other Special Crops	—	—	—	—	8,000
All Tame Hay	627.0	4.63	2 903.0	45.00	130,635
Silage Corn	10.1	20.7	209.0	15.00	3,135
Sugar Beets	10.8	39.3	424.0	44.51	18,872
Horticulture					
Potatoes	18.2	23.4	426.4	117.00	49,889
Vegetables	1.7	—	23.6	—	11,153
Fruits	—	—	—	—	3,300
Greenhouse and Mushrooms	—	—	—	—	15,250
Nursery Products and Sod	—	—	—	—	11,200
Miscellaneous	—	—	—	—	4,600
Other Crops	—	—	—	—	7,800
TOTAL	—	—	—	—	1,135,783

SOURCE Statistics Canada, Manitoba Agriculture

TABLE 3B

1987 Summary of Crop Production

Crop	Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Per Bushel \$	Total (\$000)
Wheat	4,850.0	29.9	145,000	2.72	394,650
Oats	450.0	60.0	27,000	1.38	37,232
Barley	1,700.0	52.4	89,000	1.36	121,125
Flaxseed	800.0	20.0	16,000	4.95	79,170
Canola (Rapeseed)	1,000.0	25.8	25,800	5.78	149,175
Rye	65.0	27.7	1,800	2.04	3,680
Mixed Grains	80.0	50.0	4,000	1.25	5,002
Grain Corn	50.0	86.0	4,300	2.33	10,028
Field Peas	180.0	29.4	5,300	5.28	27,975
Buckwheat	40.0	23.3	930	5.39	5,010
		(pounds)	(000 pounds)	(per pound)	
Sunflowerseed	70.0	1,400	98,000	0.09	8,989
Mustard Seed	15.0	1,133	17,000	0.12	2,002
Canary Seed	25.0	1,180	29,500	0.10	2,807
Lentils	60.0	1,367	82,000	0.13	11,011
Forage Seeds	—	—	—	—	14,093
Other Special Crops	—	—	—	—	8,000
		(tons)	(000 tons)	(per ton)	
All Tame Hay	1,550.0	2.06	3,200	40.82	130,635
Silage Corn	25.0	9.20	230	13.63	3,135
Sugar Beets	26.6	17.58	467.5	40.37	18,872
Horticulture					
Potatoes	45.0	10.47	470.1	106.12	49,889
Vegetables	3.9	—	26.0	—	11,153
Fruits	—	—	—	—	3,300
Greenhouse and Mushrooms	—	—	—	—	15,250
Nursery Products and Sod.	—	—	—	—	11,200
Miscellaneous	—	—	—	—	4,600
Others Crops	—	—	—	—	7,800
TOTAL	—	—	—	—	1,135,783

SOURCE: Statistics Canada; Manitoba Agriculture.

TABLE 4

1987 Summary of Livestock Production

	Number (000)	Value Per Unit \$	Total Value (\$000)
CATTLE:			
Commercial Marketings (including exports)	419.7		
Inventory Change	(28.0)		
Local Slaughtering	10.0		
Minus Inshipments	21.4		
TOTAL CATTLE	380.3	640.0	243,390
HOGS:			
Commercial Marketings (including exports)	1,825.3		
Inventory Change	67.0		
Local Slaughtering	21.0		
TOTAL HOGS	1,913.3	138.0	264,000
SHEEP AND LAMBS:			
Commercial Marketings	20,700		1,780
Wool — kilograms	36 916		48
— pounds	81,400		
TOTAL SHEEP & LAMBS & WOOL			1,828
DAIRY PRODUCTS:			
Milk Equivalent — kilolitres	306 639	395.63	121,317
Supplementary Payments			11,074
TOTAL DAIRY PRODUCTS			132,391
POULTRY:			
Eggs	54,453		51,375
Meat			54,484
Other			8,946
TOTAL POULTRY			114,805
TOTAL LIVESTOCK PRODUCTION			756,414

SOURCE: Statistics Canada; Agriculture Canada; Manitoba Agriculture.

TABLE 5 Farm Input Price Indexes (1981 = 100), Western Canada

	1985	1986	1987
Total Farm Input	106.8	108.3	110.1
Buildings and Fencing	115.7	123.2	126.6
Machinery and Motor Vehicles	118.8	116.6	115.4
Crop Production	100.6	100.6	95.0
Animal Production	101.8	108.7	119.5
Supplies and Services	122.4	122.3	124.4
Hired Farm Labour	118.4	121.6	122.1
Property Taxes	136.5	140.9	144.5
Interest	82.6	80.0	75.6
Farm Rent	97.7	97.1	94.9

SOURCE: Statistics Canada, Cat. No. 62-004, Fourth Quarter, 1987.

TABLE 6 Farm Product Price Indexes (1981 = 100), Manitoba

	1985	1986	1987
Total Index	94.3	85.0	78.2
Total Crops	89.3	69.3	56.7
Cereals	83.5	65.6	51.7
Oilseeds	108.1	77.4	64.6
All Other Crops ¹	105.0	89.6	91.1
Total Livestock and Produce	102.8	111.8	114.7
Cattle and Calves	101.8	107.1	116.9
Hogs	97.3	123.3	120.4
Poultry	104.8	103.2	100.4
Eggs	103.1	100.7	96.9
Dairy	115.3	118.8	117.4
Other Livestock and Produce ²	87.4	90.0	92.2

¹Includes fruits, vegetables (including potatoes), sugar beets and sunflowerseed.²Includes lambs, honey and fur.

SOURCE: Statistics Canada, Cat. No. 62-003.

TABLE 7

Manitoba Farm Cash Receipts, 1985-1987

	1985 ^R	1986 ^R	1987 ^P
	thousands of dollars		
Wheat	447,812	476,019	397,662
Wheat, C.W.B. Payments ¹	69,245	61,451	2,940
Oats	7,483	8,850	7,334
Oats, C.W.B. Payments ¹	191	434	613
Barley	134,349	137,701	60,175
Barley, C.W.B. Payments ¹	18,543	9,423	1,863
Western Grain Stabilization Payments	87,776	150,797	260,112
Crop Insurance Payments	31,329	40,598	33,847
C.W.B. Net Cash Advances	70,921	122,177	139,121
C.W.B. Cash Advance Repayments	-50,419	-85,185	-126,131
Deferred Grain Receipts	-79,347	-62,435	-64,580
Liquidation of Deferred Grain Receipts	99,056	79,347	62,435
Rye	9,894	6,099	5,008
Flaxseed	124,168	83,535	63,313
Canola (Rapeseed)	138,738	128,414	105,621
Corn	18,247	7,029	5,938
Sugar Beets	7,673	8,109	8,787
Potatoes	35,508	36,107	42,553
Vegetables	12,065	14,763	16,588
Floriculture and Nursery	8,860	9,361	13,299
Mustard Seed	4,863	3,231	1,446
Sunflowerseed	14,451	6,204	5,832
Net Nongrain Cash Advances	-7,980	4,087	4,173
Clover and Grass Seed	6,578	15,195	16,715
Hay and Clover	828	668	749
Dry Peas	16,948	23,291	24,269
Miscellaneous Crops	12,279	12,853	10,897
TOTAL CROPS	1,240,059	1,298,123	1,100,579
Cattle	275,947	264,808	273,841
Calves	24,790	28,965	48,709
Hogs	194,512	241,855	252,784
Sheep and Lambs	2,084	1,958	1,883
Dairy Products	102,370	106,782	110,246
Poultry	48,828	49,794	50,480
Eggs	48,354	48,093	47,740
Wool	43	39	47
Honey	10,283	9,725	8,319
Fur Farming	1,940	960	2,488
Miscellaneous Livestock	7,091	7,530	7,966
TOTAL LIVESTOCK AND PRODUCTS	716,242	760,509	804,503
Forest Products	1,334	1,471	1,491
Provincial Income Stabilization Program ²	17,911	6,554	-5,639
Dairy Supplementary Payments	10,935	10,628	11,071
Deficiency Payments ³	2,698	2,864	5,352
CASH RECEIPTS FROM FARMING OPERATIONS	1,989,179	2,080,149	1,917,357
Other Supplementary Payments	4,291	6,047	155,756
TOTAL CASH RECEIPTS	1,993,470	2,086,196	2,073,113

¹Participation payments made by the C.W.B. to producers for crops delivered in previous years.²Payments made to producers by the Manitoba Government under its support program. These payments are net — estimates of producer premiums have been deducted.³Payments made under the Agricultural Stabilization Act and under the Health of Animals Program.

SOURCE: Statistics Canada, Cat. No. 21-003; Agriculture Canada, Manitoba Agriculture.

TABLE 8

MANITOBA FARM EXPENDITURES, 1985-1987

	1985 ^R	1986 ^R	1987 ^P
	thousands of dollars		
Taxes	36,616	39,491	32,530
Rent	97,819	98,361	74,887
Cash	67,878	72,866	55,893
Share	29,941	25,495	18,994
Wages	84,053	91,690	93,019
Cash	82,625	90,199	91,462
Room & Board	1,428	1,491	1,557
Interest	160,585	152,451	144,972
Total Machinery	292,905	273,253	280,066
Fuel	161,296	142,443	142,323
Repairs and Expenses	131,609	130,810	137,743
Fertilizer and Lime	218,748	198,446	168,679
Pesticides	115,301	106,100	105,676
Seed	48,267	47,449	42,989
Twine, Wire and Containers	5,562	5,985	6,248
Feed	127,596	121,137	119,320
Feeder Cattle and Weanling Pigs Purchases ..	10,745	12,348	14,545
Breed Association Fees	233	242	253
A.I. and Veterinary Expenses	8,985	9,269	9,760
Repairs to Buildings	23,632	26,421	26,738
Electricity and Telephone	33,192	33,820	36,141
Electricity	26,120	26,642	28,640
Telephone	7,072	7,178	7,501
Insurance	37,066	36,107	49,679
Fencing	4,958	4,826	5,111
Custom Work	23,936	12,244	12,293
Heating Fuel	14,959	11,455	10,607
Stabilization	7,746	6,518	10,455
Other	35,915	34,253	33,018
TOTAL OPERATING EXPENSES	1,388,819	1,320,866	1,276,986
Depreciation	261,637	269,889	260,609
Buildings	17,617	16,384	15,237
Machinery	244,020	253,505	245,372
TOTAL OPERATING EXPENSES AND DEPRECIATION CHARGES	1,650,456	1,590,755	1,537,595

SOURCE: Statistics Canada, Agriculture Canada, Manitoba Agriculture

Cash Income

Farm cash income includes proceeds from the sale of agricultural products sold off farm through regular market channels. All deficiency, supplementary and final Canadian Wheat Board payments are included. In 1987 cash income was estimated at \$2.073 billion, 1.0 per cent below the 1986 level of \$2.086 billion and 4.0 per cent over the 1985 level of \$1.993 billion (nominal dollars), respectively.

Farm Net Income

Realized net farm income is determined by adding total cash receipts, income-in-kind and supplementary payments and subtracting total expenses and depreciation charges. In 1987, realized net farm income amounted to \$555.5 million, 8.0 per cent more than 1986. A decrease of 3.3 per cent in farm expenditures from 1987 relative to 1986 was also a factor. Realized net farm income per farm in 1987 was estimated at \$20,321, 8.0 per cent more than the 1986 value of \$18,813*.

*Based on 1986 Census (27,336 farms).

TABLE 9 Manitoba Farm Net Income Summary, 1985-1987

	1985 ^R	1986 ^R	1987 ^P
	thousands of dollars		
Farm Cash Receipts	1,989,179	2,080,149	1,917,975
Income-In-Kind	16,597	18,825	19,775
Supplementary Payments	4,291	6,047	155,756
Realized Gross Income	2,010,067	2,105,021	2,093,506
Operating & Depreciation Costs	1,650,456	1,590,755	1,611,889
Realized Net Income	359,611	514,266	481,617
Value of Inventory Change	289,849	-93,088	-94,743
TOTAL NET INCOME	649,460	421,178	386,874

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 10 Farm Capital Investment in Manitoba, 1985-1987

	1985 ^R	1986 ^R	1987 ^P
	thousands of dollars		
Land and Buildings	6,872,533	6,584,281	6,123,381
Machinery and Equipment	2,101,872	2,231,162	2,184,199
Livestock and Poultry	720,386	727,564	867,712
TOTAL	9,694,791	9,543,007	9,175,292

SOURCE: Statistics Canada.

TABLE 11 Farm Debt Outstanding, Manitoba, 1985-1987

	1985	1986	1987
	millions of dollars		
Chartered Banks ¹	849.0	804.0	677.3
Federal Government Agencies ²	411.7	407.3	395.0
Provincial Government Agencies	217.5	226.1	230.3
Credit Unions	211.8	245.7	271.0
Insurance, Trust, Loan Companies	8.6	8.8	8.8
Others ³	234.1	223.0	232.3
TOTAL ⁴	1,932.6	1,914.9	1,814.7

¹Includes loans under F.I.L.A.

²Includes F.C.C., V.L.A. and F.B.D.B.

³Includes supply companies, dealers, and stores.

⁴Totals may not add due to rounding.

SOURCE: Statistics Canada.

TABLE 12A Manitoba Farm Structure, 1981, 1986

	1981 Census	1986 Census
People and Land		
Total Manitoba Population	1,026,241	1,071,232
Farm Population	98,375	86,505
Total Manitoba Land Base (thousand units)		
Hectares	54 770	54 770
Acres	135,342	135,342
Farmland		
Hectares	7 736	7 740
Acres	19,115	19,125
Improved		
Hectares	5 504.0	5 403.1
Acres	13,600.6	13,351.3
Cropland: (thousand units)		
Seeded to Crops:		
Hectares	4 420.4	4 519.3
Acres	10,923.0	11,167.5
Summerfallow:		
Hectares	598.3	509.2
Acres	1,478.5	1,258.3
Hay and Pasture:		
Hectares	2 497.7	2 541.0
Acres	6,172.0	6,279.0
Other Improved:		
Hectares	132.8	99.6
Acres	328.1	246.7
Unimproved:		
Hectares	2 231.0	2 337.1
Acres	5,513.0	5,775.2

SOURCE: Statistics Canada.

TABLE 12B Manitoba Farm Structure, 1981, 1986 (cont'd)

	1981 Census	1986 Census
Farms and Tenure of Operators		
Census Farms	29,442	27,336
Average Size per Census Farm		
Hectares	263	283
Acres	649	700
Average Value per Unit		
Hectares	\$1,028.86	\$850.66
Acres	\$416.36	\$344.25
Average Capital per Farm	\$354,968.00	\$349,525.00
Average Realized Net Income per Farm	\$7,928.00	\$18,406.00
Average Debt per Farm	\$52,269.00	\$71,603.00
Average Expenses per Farm	\$49,249.00	\$61,828.00
Type of Organization		
Individual/Family Farm	25,701	27,336
Partnership		
With written agreement	688	761
With no written agreement	1,965	2,468
Corporation		
Family	882	1,035
Other	85	81
Institution	—	16
Community Pasture	—	29
Other	—	77
Tenure of Operators		
Owner	16,083	25,091
Tenant	2,259	—
Part-Owner, Part-Tenant	11,100	—
Rent/Leasing	—	13,552

SOURCE: Statistics Canada.

CROP PRODUCTION

General Conditions

April 1987 was the second driest month in Manitoba since Environment Canada started recording weather in 1871 (the driest was 1980). Provincially, the total precipitation at the beginning of the growing season (May 10) was 16 per cent of normal. However, by October 31st precipitation levels had improved to 95 per cent of normal.

Despite the lack of sufficient rainfall, the subsoil moisture in May was adequate to sustain crops. However, the lack of topsoil moisture was of some concern in most regions of the province. Spring field work commenced much earlier than last year. Spring plantings were off to a good start and became general by the first week of May. By May 8th, approximately 75-85 per cent of the cereal crops had been seeded. By comparison, at this time last year, less than 5 per cent of cereals had been planted.

By June 2nd, virtually all crops had been seeded in Manitoba with the growth of crops progressing well as generally good growing conditions prevailed. Cereals and oilseeds were rated in fair to good condition in most districts but forage crops were generally in poor to fair condition. Insect infestation problem was minimal in the spring. Though weed growth was normal, Canada thistle growth was above normal in most areas. Spraying for weeds was virtually complete by June 12th.

By the end of June, crops were suffering heat stress, but cooler weather at the beginning of July brought some relief. In the second week of July, most cereals were heading. Oilseeds were nearly finished blooming with approximately 10 per cent forming pods or bolls. The quality of forage crops was rated as adequate. An outbreak of Yellow Dwarf virus in barley had occurred in the eastern part of the province, particularly in the Steinbach area. The rainfall total from April 1st to August 16th in the province was 8.5 per cent above normal, an improvement from a month ago. In most crop districts, moisture levels varied from fair to good. Provincially, approximately 35-40 per cent of the cereal crops had been swathed and 25-30 per cent were combined as of August 14th. Rain showers in early August interrupted harvesting. Cereal and oilseed crops continued to be in fair to good condition, except in crop district #1, where they rated poor to fair. Only slight damage was reported from frost, wind, hail and lodging. Ill effects of dry weather in the earlier part of the growing season and the current excess wet conditions in parts of the province appeared likely to produce somewhat lower yields and grades this year. Harvesting of Fall rye was complete by mid-August in the Interlake and Northwest Regions, producing average yields. Other regions were further behind. Second-cut haying operations were in full swing in most regions.

Nearly all cereal crops had been swathed by September 11th, with approximately 96 per cent combined. Swathing of canola was nearing completion and 70-75 per cent had been combined. About 70 per cent of the flaxseed had been swathed and 45-50 per cent combined. Uneven ripening of oilseed crops in several districts affected seed quality.

Manitoba's grain and oilseed harvest was nearly complete as of September 30th. Only a small percentage of flaxseed remained to be taken off in the Interlake, Northwest and Southwest Regions. This progress was far ahead of last year. Fall field work was underway in all parts of the province by this time.

Except for a few very late seeded crops in the Interlake Region, and a few fields of sunflower and corn in the Central Region, all crops had been combined in the province by the end of October. Overall, crop quality was somewhat below normal this year. Fall seeded crops were generally in good condition.

WHEAT

One million, nine hundred and sixty-three thousand, two hundred hectares (4,850,000 acres) were planted in 1987. Total production was estimated at 3 946.5 million tonnes (145,000 million bushels), a fall of 12 per cent below the 1986 level. The 1987 wheat crop had an estimated value of production of \$394.6 million, a 9.1 per cent decline below the revised 1986 value of \$434.3 million. The area seeded, average yields and total production for 1986 (based on Census 1986) and 1987 are shown below.

TABLE 13 Area, Yield and Production of Wheat, 1987

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	305	284	2 184	1 514	666	430
2	248	243	2 335	1 905	579	463
3	225	223	2 387	2 206	537	492
4	86	91	2 128	1 945	183	177
5	93	86	2 140	1 826	199	157
6	139	139	2 022	1 849	281	257
7	271	268	2 299	2 291	623	614
8	354	338	2 288	2 216	810	749
9	144	144	2 181	2 250	314	324
10	17	18	1 824	1 889	31	34
11	85	92	2 129	2 141	181	197
12	36	51	2 028	2 039	73	104
PROVINCE	2 003	1 977	2 240	2 020	4 477	3 998

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1986	1987	1986	1987	1986	1987
1	752	702	32.5	22.5	24,470	15,809
2	614	602	34.7	28.3	21,285	17,025
3	557	551	35.4	32.8	19,708	18,082
4	213	223	31.5	29.1	6,712	6,484
5	231	214	31.7	27.1	7,314	5,791
6	343	345	30.2	27.3	10,350	9,430
7	669	661	34.2	34.2	22,907	22,583
8	874	833	34.1	33.0	29,782	27,494
9	355	356	32.5	33.4	11,526	11,902
10	42	45	27.1	27.6	1,140	1,244
11	209	227	31.7	31.8	6,630	7,217
12	91	126	29.4	30.5	2,676	3,839
PROVINCE	4,950	4,885	33.2	30.1	164,500	146,900

SOURCE: Statistics Canada.

Durum wheat is included with total wheat production statistics. In 1987 the seeded area was estimated at 142 000 hectares (350,000 acres), down 12.5 per cent from the 1986 level. Average yield was 1 820 kilograms per hectare (27.1 bushels per acre) compared to 2 300 kilograms (34.3 bushels) in 1986. Total production was estimated at 259 000 tonnes (9,500,000 bushels), a decrease of 30.7 per cent from 1986.

OATS

Total production of oats in 1987 was estimated at 416 000 tonnes (27 million bushels) with a total farm value of \$37.2 million, up 8.5 per cent over the revised value of \$34.3 million in 1986. A 9.8 per cent fall in average yield in 1987 resulted in a 10.2 per cent decrease in total production from the previous year.

TABLE 14 Area, Yield and Production of Oats, 1987

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	17	15	2 471	1 529	42	28
2	29	25	2 655	1 857	77	54
3	17	17	2 529	2 111	43	40
4	9	7	2 333	2 250	21	16
5	8	11	2 125	2 000	17	22
6	21	18	2 381	1 826	50	40
7	32	33	2 781	2 194	89	83
8	12	13	2 917	2 462	35	36
9	15	17	2 533	2 353	38	41
10	5	5	2 000	1 800	10	10
11	8	10	2 500	2 455	20	23
12	9	11	2 333	2 067	21	23
PROVINCE	182	182	2 540	2 060	463	416

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1986	1987	1986	1987	1986	1987
1	42	38	65.5	47.7	2,752	1,813
2	71	61	70.3	57.2	4,993	3,489
3	41	41	68.2	63.5	2,798	2,604
4	22	17	62.3	60.5	1,370	1,028
5	19	27	57.6	53.6	1,095	1,446
6	53	44	61.2	58.3	3,244	2,566
7	79	81	73.3	66.5	5,791	5,388
8	29	37	74.6	64.5	2,162	2,386
9	38	41	64.4	65.6	2,447	2,688
10	13	12	49.5	51.7	643	620
11	20	24	66.4	61.5	1,327	1,475
12	23	27	59.9	55.4	1,378	1,497
PROVINCE	450	450	66.7	60.0	30,000	27,000

SOURCE: Statistics Canada.

Oats for hay is not included in the above data. In 1987 an estimated 20 235 hectares (50,000 acres) of oats were planted and cut for hay.

BARLEY

Barley production in 1987 was 1 938 000 tonnes (89,000,000 bushels), up 4.7 per cent from the 1986 level. Six hundred and eighty-eight thousand hectares (1,700,000 acres) were harvested yielding an average of 2 820 kilograms per hectare (52.4 bushels per acre). The total farm value of production was \$121.1 million, down 12.7 per cent from the 1986 level. The area, yield and production of the 1986 and 1987 barley crops are shown below. An additional 20 234 hectares (50,000 acres) were planted and cut for fodder in 1987.

TABLE 15 Area, Yield and Production of Barley, 1987

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	61	64	2 984	2 234	182	143
2	94	99	3 074	2 717	289	269
3	94	97	3 202	3 103	301	301
4	28	27	2 786	2 815	78	76
5	23	31	2 522	2 581	58	80
6	40	36	2 750	2 750	110	99
7	82	95	2 963	3 105	243	295
8	93	107	3 140	3 047	292	326
9	40	54	2 825	3 167	113	171
10	7	7	2 143	2 429	15	17
11	37	45	2 703	3 000	100	135
12	28	26	2 500	2 654	70	69
PROVINCE	627	688	2 950	2 880	1 851	1 981

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1986	1987	1986	1987	1986	1987
1	150	159	55.7	41.2	8,353	6,548
2	232	245	57.2	50.4	13,275	12,345
3	233	239	59.3	57.9	13,812	13,845
4	70	66	51.2	53.1	3,584	3,506
5	58	76	46.2	48.1	2,679	3,657
6	98	90	51.4	50.4	5,035	4,539
7	203	235	54.9	57.7	11,138	13,562
8	231	263	58.2	56.9	13,442	14,957
9	98	134	53.0	58.7	5,195	7,868
10	17	18	40.9	44.5	695	801
11	91	111	50.5	55.7	4,598	6,188
12	69	64	46.3	49.8	3,194	3,184
PROVINCE	1,550	1,700	54.8	53.5	85,000	91,000

SOURCE: Statistics Canada.

CANOLA (RAPESEED)

Canola (rapeseed) plantings were 405 000 hectares (1,000,000 acres) in 1987, the same as in 1986. The average yield was estimated at 1 440 kilograms per hectare (25.8 bushels per acre). The total value of farm production from canola (rapeseed) was estimated at \$149.2 million, 31.0 per cent more than in 1986.

TABLE 16 Area, Yield and Production of Canola (Rapeseed), 1987

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	44.9	51.3	1 465	1 466	65.8	75.2
2	40.2	37.8	1 463	1 418	58.8	53.6
3	49.2	52.0	1 571	1 531	77.3	79.6
4	23.3	23.4	1 494	1 521	34.8	35.6
5	13.9	10.8	1 259	1 250	17.5	13.5
6	39.8	41.4	1 427	1 367	56.8	56.6
7	70.8	70.4	1 329	1 500	94.1	105.6
8	68.8	71.3	1 465	1 482	100.8	105.7
9	15.3	17.5	1 418	1 491	21.7	26.1
10	4.0	3.4	1 225	1 265	4.9	4.3
11	14.9	11.7	1 342	1 333	20.0	15.6
12	19.9	14.0	1 281	1 329	25.5	18.6
PROVINCE	405.0	405.0	1 430	1 460	578.0	590.0

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1986	1987	1986	1987	1986	1987
1	110.9	126.8	26.2	26.1	2,901.2	3,315.3
2	99.3	93.3	26.1	25.3	2,591.7	2,364.7
3	121.5	128.6	28.0	27.3	3,407.5	3,508.7
4	57.6	57.8	26.6	27.2	1,533.7	1,570.0
5	34.4	26.8	22.4	22.3	771.4	596.5
6	98.3	102.3	25.5	24.4	2,505.7	2,496.2
7	174.9	174.0	23.7	26.8	4,150.4	4,657.7
8	169.4	175.0	26.3	26.5	4,457.8	4,644.1
9	37.8	43.3	25.3	26.5	958.0	1,148.7
10	9.9	8.5	22.0	22.3	217.5	199.5
11	36.8	29.0	24.0	23.7	882.2	686.9
12	49.2	34.6	22.8	23.7	1,122.9	821.7
PROVINCE	1,000.0	1,000.0	25.5	26.0	25,500.0	26,000.0

SOURCE: Statistics Canada.

FLAXSEED

In 1987, 406 000 tonnes (16.0 million bushels) were harvested, down 29 per cent from 1986. The decrease in 1987 production was the result of an 8.8 per cent drop in yields and a 22.3 per cent decline in seeded area relative to 1986. Manitoba farmers contributed an estimated 55.7 per cent of Canadian production. The estimated total value of the 1987 crop was \$79.2 million, a 20 per cent fall below 1986.

TABLE 17 Area, Yield and Production of Flaxseed, 1987

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	41.2	39.7	1 405	1 154	57.9	45.8
2	26.7	22.7	1 442	1 203	38.5	27.3
3	24.1	19.6	1 585	1 378	38.2	27.0
4	4.9	4.0	1 388	1 300	6.8	5.2
5	21.4	12.7	1 266	1 236	27.1	15.7
6	17.7	14.6	1 373	1 130	24.3	16.5
7	86.0	64.8	1 224	1 323	105.3	85.7
8	119.5	95.3	1 449	1 300	173.2	123.9
9	44.7	34.0	1 353	1 362	60.5	46.3
10	4.8	3.2	1 208	1 188	5.8	3.8
11	18.5	19.3	1 411	1 295	26.1	25.0
12	7.5	6.1	1 107	1 115	8.3	6.8
PROVINCE	417.0	336.0	1 370	1 280	572.0	429.0

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1986	1987	1986	1987	1986	1987
1	101.7	98.2	22.4	18.4	2,278.1	1,804.0
2	66.1	56.1	22.9	19.2	1,513.8	1,076.7
3	59.5	48.4	25.3	22.0	1,504.2	1,063.6
4	12.0	9.9	22.2	20.6	266.2	203.7
5	52.8	31.3	20.2	19.7	1,065.6	618.1
6	43.8	36.0	21.8	18.0	956.1	649.3
7	212.6	160.1	19.5	21.1	4,145.1	3,372.4
8	294.9	235.1	23.1	20.8	6,804.6	4,891.9
9	110.5	84.0	21.6	21.7	2,382.8	1,821.1
10	11.8	8.0	19.5	18.7	230.0	149.3
11	45.8	47.8	22.4	20.6	1,028.0	983.7
12	18.5	15.1	17.6	17.6	325.5	266.2
PROVINCE	1,030.0	830.0	21.8	20.4	22,500.0	16,900.0

SOURCE: Statistics Canada.

RYE

Total Fall rye farm value of production was estimated at \$3,680,000 in 1987. Harvested area was 26 300 hectares (65,000 acres) in 1987 compared to 30 900 hectares (76,600 acres) in 1986. The average yield was estimated at 1 750 kilograms per hectare (27.7 bushels per acre) in 1987 compared to 1 970 kilograms per hectare (31.3 bushels per acre) in 1986.

TABLE 18 Area, Yield and Production of Fall Rye, 1987

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	8.0	5.9	2 138	1 712	17.1	10.1
2	10.0	8.7	1 850	1 563	18.5	13.6
3	2.7	2.5	1 926	1 560	5.2	3.9
4	0.7	0.6	2 000	1 833	1.4	1.1
5	1.2	1.1	2 000	1 909	2.4	2.1
6	0.6	0.6	2 000	1 667	1.2	1.0
7	3.4	4.7	1 941	2 085	6.6	9.8
8	1.7	1.3	2 412	2 538	4.1	3.3
9	—	0.4	—	1 750	—	0.7
10	0.2	0.1	1 500	2 000	0.3	0.2
11	—	0.1	—	1 000	—	0.1
12	—	0.0	—	—	0.1	0.1
PROVINCE	29.0	26.0	2 000	1 770	58.0	46.0

Crop District	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1986	1987	1986	1987	1986	1987
1	19.7	14.5	34.2	27.5	673.2	398.9
2	24.6	21.4	29.5	25.0	726.5	535.4
3	6.6	6.1	31.2	25.5	206.1	155.5
4	1.7	1.5	31.7	28.5	53.9	42.7
5	2.9	2.7	32.1	31.0	93.2	83.7
6	1.6	1.5	28.6	26.9	45.8	40.4
7	8.5	11.5	30.7	33.6	261.1	386.2
8	4.6	4.2	35.6	26.9	163.6	112.9
9	—	1.0	—	27.7	—	27.7
10	0.4	0.3	31.5	27.7	12.6	8.3
11	—	0.2	—	27.5	—	5.5
12	0.1	0.1	31.0	28.0	3.1	2.8
PROVINCE	72.0	65.0	31.7	27.7	2,280.0	1,800.0

SOURCE: Statistics Canada.

MIXED GRAINS

An estimated 82 000 tonnes (4.0 million bushels) were produced in 1987. This level of production was identical to that in 1986. Planted area in 1987 was 32 400 hectares (80,000 acres), the same as the 1986 level. Mixed grains total value of production in 1987 was \$5.0 million, 66 per cent of the 1986 value of \$7.5 million.

SPECIALTY CROPS

GRAIN CORN

Grain corn plantings in 1987 were estimated at 20 200 hectares (50,000 acres), up 46.4 per cent from the 1986 level of 13 800 hectares (34,000 acres). The estimated total production of 109 000 tonnes (4.3 million bushels) was up 79 per cent from the 1986 level.

The average yield of grain corn was estimated at 5 400 kilograms per hectare (86.0 bushels per acre), up 22 per cent from 1986. The total value of production in 1987 was estimated at \$10.0 million, 75.0 per cent more than 1986.

SUNFLOWERSEED

The 1987 sunflower plantings were estimated at 28 300 hectares (70,000 acres), up 22.5 per cent from 1986. The average yield was estimated at 1 570 kilograms per hectare (1,400 pounds per acre). Manitoba's area accounted for 82 per cent of the plantings in Canada. Sunflower production was estimated at \$9.0 million in 1987, an increase of 30.4 per cent above the value in 1986. Manitoba's production made up 85 per cent of total Canadian production in 1987.

FIELD PEAS

The 1987 field pea plantings were estimated at 72 800 hectares (180 000 acres), 24 per cent higher than in 1986. These plantings represent 29 per cent of the field peas grown in Canada. The average yield was 1 980 kilograms per hectare (1,766 pounds per acre), a 12.5 per cent increase from 1986. Field peas had a value of production of \$28.0 million in 1987, 42.9 per cent more than 1986.

BUCKWHEAT

Buckwheat plantings were estimated at 16 000 hectares (40,000 acres), a decrease of 27 per cent below 1986. The average yield was 1 260 kilograms per hectare (23.3 bushels per acre). The value of production of buckwheat was estimated at \$5.0 million in 1987, the same as 1986.

MUSTARD

Mustard plantings were estimated at 6 100 hectares (15,000 acres), only 43 per cent of the estimate for 1986. Yellow mustard accounted for approximately 90 per cent of plantings whereas Brown and Oriental mustard accounted for 10 per cent. Average yields were estimated at 1 260 kilograms per hectare (1,133 pounds per acre). Mustard seed had a farm value of \$2.0 million in 1987, 59.4 per cent lower than in 1986.

LENTILS

Lentil growers in Manitoba planted 24 300 hectares (60,000 acres) in 1987. This was 36.5 per cent greater than the revised 1986 area of 17 800 hectares (44,000 acres). An average yield of 1 530 kilograms per hectare (1,367 pounds per acre) generated a total production of 37 200 tonnes (82,000 bushels), 78 per cent higher than in 1986 and a value of production of \$11.0 million, 19.5 per cent higher than in 1986.

CANARY SEED

Canary seed plantings were estimated at 10 100 hectares (25,000 acres) in 1987. This represented a 56.5 per cent decrease below 1986. The total value of production was estimated at \$2.8 million, only 43.5 per cent of the total 1986 value.

FABABEANS

Six thousand one hundred hectares (15,000 acres) of fababeans were planted in Manitoba in 1987. This was an increase of 30 per cent above 1986. The total production amounted to 16 327 tonnes (18,000 tons). The net result was an estimated value of production of \$2.9 million in 1987, 71 per cent higher than 1986.

FIELD BEANS

In 1987, approximately 8 100 hectares (20,000 acres) of field beans were planted in Manitoba. The acreage was divided about equally between white navy and coloured beans (Pinto, Black, kidney).

White beans produced an average yield of about 1 570 kilograms per hectare (1,400 pounds per acre), yielding a total crop of 6 350 tonnes (7,000 tons). Beans were sold over a wide price range, but the bulk of the crop was sold at lower levels producing an average price of about \$0.40 per kilogram (\$0.18 per pound) with an estimated value of \$2,519,884.

Pinto beans were produced on 2 630 hectares (6,500 acres), with an average yield of 1 736 kilograms per hectare (1,550 pounds per acre). The total production of 4 570 tonnes (5,037 tons) was valued at an average price of \$0.37 per kilogram (\$0.17 per pound), giving a total value of \$1,712,771.

Black bean acreage has been decreasing in Manitoba and in 1987 only 325 hectares (800 acres) were produced. Average yield was about 1 568 kilograms per hectare (1,400 pounds per acre) and average price around \$0.33 per kilogram (\$0.15 per pound). The total crop of 508 tonnes (560 tons) was valued at about \$168,000.

Dark red kidney bean acreage has been increasing steadily in recent years. In 1987 they were produced on about 800 hectares (2,000 acres) and yielded about 1 736 kilograms per hectare (1,550 pounds per acre) on average. The crop of 1 406 tonnes (1,550 tons) sold for an average price of \$0.75 per kilogram (\$0.34 per pound) producing a total value of about \$1,054,000.

The total production of all field beans in Manitoba in 1987 was 13 346 tonnes (14,720 tons) for a total value of \$5,624,155.

SUGAR BEETS

The sugar beet harvested area was 10 800 hectares (26,600 acres) in 1987, down 4.4 per cent from 1986. The average yield was 39.3 tonnes per hectare (17.58 tons per acre). Total production was estimated at 424 000 tonnes (467,500 tons) and valued at \$18,872,000 in 1987. Total 1986 production was 350 000 tonnes (386,000 tons) and was valued at \$15,064,000. These values include payments under the stabilization plan.

CORN FOR SILAGE

Silage corn area in 1987 totalled 10 100 hectares (25,000 acres), 21.7 per cent less than for 1986. Total production decreased from 272 000 tonnes (300,000 tons) in 1986 to 209 000 tonnes (230,000 tons) in 1987. The average yield was estimated at 20 700 kilograms per hectare (9.20 tons per acre), compared to 21 100 kilograms per hectare (9.38 tons per acre) in 1986. Silage corn was valued at \$3.1 million, 27.9 per cent less than its value in 1986.

TAME HAY AND PASTURE

The area under tame hay and pasture was estimated at 627,000 hectares (1,550,000 acres). Tame hay production was valued at \$130,165,000 based on the average price of \$45.00 per tonne (\$40.82 per ton). Estimates on the production of wild hay and other crops such as wheat and millet cut for hay are not available. The area in improved pasture was estimated at 283 000 hectares (700,000 acres) in 1987.

TABLE 19

Area, Yield and Production of Tame Hay, 1987

Crop District	Harvested Hectares (000)		Yield per Hectare (tonnes)		Production (000 tonnes)	
	1986	1987	1986	1987	1986	1987
1	36.4	37.9	4.74	3.14	172.7	119.1
2	57.1	60.4	5.91	4.10	337.6	247.5
3	44.2	44.9	4.96	4.84	219.3	217.5
4	28.5	30.1	4.25	3.91	121.0	117.8
5	23.8	27.9	4.94	4.20	117.5	117.1
6	76.6	82.6	4.19	4.11	320.6	339.2
7	63.5	67.4	5.52	5.55	350.4	374.4
8	32.4	33.8	5.97	4.61	193.4	155.9
9	48.8	52.1	6.48	6.79	316.0	353.7
10	31.1	33.6	4.86	5.16	151.1	173.5
11	35.2	37.5	6.85	5.50	241.0	206.4
12	109.4	118.8	4.97	4.05	543.4	480.9
PROVINCE ...	587.0	627.0	5.25	4.63	3 084.0	2 903.0

Crop District	Harvested Acres (000)		Yield per Acre (tons)		Production (000 tons)	
	1986	1987	1986	1987	1986	1987
1	90.0	93.6	2.12	1.40	190.4	131.3
2	141.1	149.3	2.64	1.83	372.1	272.8
3	109.1	110.9	2.22	2.16	241.7	239.8
4	70.5	74.5	1.89	1.74	133.4	129.9
5	58.7	68.9	2.21	1.87	129.5	129.1
6	189.4	204.2	1.87	1.83	353.4	373.9
7	156.9	166.5	2.46	2.48	386.3	412.7
8	79.4	84.2	2.69	2.04	213.6	171.8
9	120.7	128.8	2.89	3.03	348.3	389.9
10	76.9	83.0	2.17	2.30	166.6	191.2
11	87.0	92.6	3.05	2.46	265.7	227.5
12	270.3	293.5	2.22	1.81	599.0	530.1
PROVINCE ...	1,450.0	1,550.0	2.34	2.06	3,400.0	3,200.0

SOURCE: Statistics Canada.

TABLE 20

Area of Pasture, 1987

Crop District	Hectares (000)		Acres (000)	
	1986	1987	1986	1987
1	23.1	22.2	57.1	54.9
2	32.5	31.1	80.4	76.8
3	28.5	30.6	70.5	75.7
4	22.7	21.4	56.1	52.9
5	15.6	15.3	38.5	37.9
6	38.2	39.1	94.3	96.7
7	33.8	33.1	83.5	81.8
8	16.0	16.6	40.2	41.5
9	12.3	13.1	30.5	32.4
10	8.4	7.7	20.7	19.0
11	13.0	14.3	32.1	35.3
12	38.9	38.5	96.1	95.1
PROVINCE ...	283.0	283.0	700.0	700.0

SOURCE: Statistics Canada.

POTATOES

The area planted to potatoes in 1987 was estimated at 18 200 hectares (45,000 acres). Of this total, 12.8 per cent was table stock, 8.3 per cent seed, 78.9 per cent to processing.

Harvested production was estimated at 426 400 tonnes (470,100 tons) with an average yield of 23.4 tonnes per hectare (10.4 tons per acre). Total value of production estimated at \$49,889,000 is 48.6 per cent higher than 1986.

Spring planting conditions were good with most areas planted one week to ten days earlier than normal. Growing conditions were generally favourable except in some areas west of Portage where excessive precipitation resulted in loss of some fields. The remainder of the province produced yields well above average. Ideal fall harvest conditions throughout the province resulted in a surplus of quality product over and above process contract requirements. Some fields were left unharvested and a percentage of the marketable potatoes will not be sold.

VEGETABLES

Vegetable growers in Manitoba for the most part had favourable growing conditions in 1987. Spring came very early and growers were able to get on the land much sooner than last year. Most growers were well into planting before the end of April.

Overall, the summer provided suitable growing conditions. However, in late July, nearby rains in isolated areas caused severe damage to some crops (cauliflower in particular). Fortunately, this damage was not widespread and total sales of summer crops showed a significant increase over last year.

Harvesting for storage went smoothly with few delays due to weather. Yields on all storage vegetables were high resulting in some temporary delays in harvesting as growers had to empty storages before they could be refilled.

Storage holdings on all root crops are up over last year. Quality and movement have been good. Prices are reasonable with all appearances of strengthening. A total of 1 661.2 hectares (4,105 acres) were grown to vegetables and harvested in 1987. This was only 4 per cent more planted area in 1987 than in 1986, although 5 per cent more area was harvested. The estimated value of production was \$11.2 million, an 8.6 per cent increase over 1986.

TABLE 21

1987 Fresh Vegetable Production
and Farm Value, Manitoba

	Planted Area (hectares)	Harvested Area (hectares)	Average Yield (kg/ha)	Total Production (tonnes)	Average Price (\$/kg)	Total Value (\$'000)
Asparagus	32.4	32.4	2 466	80.0	2.20	176.0
Beets	8.1	8.1	21 296	172.5	0.42	72.2
Cabbage	153.8	153.8	21 296	3 275.3	0.22	722.0
Carrots	105.2	105.2	38 109	4 009.1	0.33	1,326.0
Cole Crops (excl. cabbage) ..	204.3	204.3	—	1 918.4	—	1,510.2
Celery	28.3	28.3	35 868	1 015.1	0.44	448.0
Corn, Sweet	214.5	214.5	11 209	2 404.3	0.33	795.0
Cucumbers	34.4	34.4	22 417	771.1	0.44	340.0
Lettuce	20.2	20.2	8 406	169.8	0.84	142.5
Onions	180.1	180.1	—	5 731.2	—	2,614.2
Parsnips	26.3	26.3	17 934	471.7	0.77	364.0
Peppers	10.1	10.1	11 209	113.2	0.73	82.5
Radish	26.3	26.3	5 604	147.4	0.99	160.9
Squash	12.1	12.1	—	283.4	—	105.0
Tomatoes	6.1	6.1	15 692	95.7	0.77	73.5
Rutabagas	52.6	52.6	22 279	1 171.9	0.33	474.6
Peas, Sweet	58.7	58.7	3 363	197.4	2.20	435.0
Processing	445.2	445.2	—	1 375.3	—	1,130.0
Beans, Snap	22.3	22.3	2 802	62.5	0.99	56.3
Other Crops	20.2	20.2	—	145.4	—	125.0
TOTAL	1 661.2	1 661.2	—	23 610.7	—	11,152.9

	Planted Area (acres)	Harvested Area (acres)	Average Yield (lb/acre)	Total Production (tons)	Average Price (\$/lb)	Total Value (\$'000)
Asparagus	80	80	2,200	176.0	1.00	176.0
Beets	20	20	19,000	380.0	0.19	72.2
Cabbage	380	380	19,000	7,220.0	0.10	722.0
Carrots	260	260	34,000	8,840.0	0.15	1,326.0
Cole Crops (excl. cabbage) ..	505	505	—	4,230.1	—	1,510.2
Celery	70	70	32,000	2,240.0	0.20	448.0
Corn, Sweet	530	530	10,000	5,300.0	0.15	795.0
Cucumbers	85	85	20,000	1,700.0	0.20	340.0
Lettuce	50	50	7,500	375.0	0.38	142.5
Onions	445	445	28,400	12,638.0	0.28	2,614.2
Parsnips	65	65	16,000	1,040.0	0.35	364.0
Peppers	25	25	10,000	250.0	0.33	82.5
Radish	65	65	5,000	325.0	0.45	160.9
Squash	30	30	—	624.9	—	105.0
Tomatoes	15	15	14,000	210.0	0.35	73.5
Rutabagas	130	130	24,300	3,159.0	0.15	474.6
Peas, Sweet	145	145	3,000	435.0	1.00	435.0
Processing	1,100	1,100	—	3,032.5	—	1,130.0
Beans, Snap	55	55	2,500	137.5	0.45	56.3
Other Crops	50	50	—	320.5	—	125.0
TOTAL	4,105	4,105	—	52 633.5	—	11,152.9

SOURCE: Manitoba Agriculture

ORNAMENTAL CROPS

Nursery Stock

Field grown stock wintered well in most areas. Some damage was reported to herbaceous perennials where snow cover was lacking.

Dry April and May conditions resulted in an early start to spring sales. On average, the season was one week to ten days ahead of normal. Late spring frosts at the end of May caused some localized damage to stock already leafed out. High volume of retail sales held into June. Overall the growing season was good but dry conditions required irrigation for spring and summer planting.

Landscape contracting was active, especially in the commercial areas. Bidding on jobs was very competitive and prices remained about the same as in previous years.

An ideal fall allowed for a timely harvest and opportunity to put plants into storage in excellent condition.

Overall sales averaged about 8 to 10 per cent above 1986.

Nursery Sod

Spring of 1987 was ideal for an early start of harvesting with sales initiated two to three weeks ahead of previous years. Demand was strong into June. Overall there was an increase in sales volume due to commercial contracts.

Pricing of product remains a problem. Undercutting the price during the season is a standard practice. Prices vary from \$1.00/m down to \$0.50/m during the season.

Several growers have increased their land base in anticipation of future increase in sales volumes.

TABLE 22 Value of Production of Floriculture & Nursery

Total Estimated Value for 1987 Production:

Potatoes	\$49,889,000
Commercial Vegetables (Fresh)	11,152,900
Fruits	3,300,000
Environmentally Controlled Production (Greenhouse and Mushrooms)	15,250,000
Nursery Products and Sod	11,200,000
TOTAL	\$90,791,900

SOURCE: Manitoba Agriculture

Fruit

The total area of fruit crops in Manitoba is 439 hectares (1 084 acres). This includes 344 hectares (860 acres) of strawberries, 80 hectares (198 acres) of raspberries, and 15 hectares (37 acres) of apples and Saskatoons.

The area planted to strawberries increased approximately 10 per cent in 1987. There is 70 hectares (173 acres) of new plantings. Early spring conditions advanced normal harvest dates by ten days to two weeks. Good winter snow cover in most locations provided good protection and resulted in minimal winter injury. Crop yields were average, fruit size was below average because of high temperatures prior to and during harvest. Heavy rainfall during August damaged day-neutral yields intended for the fresh trade. The industry continues to shift some of its production to the hotel, restaurant, and institutional trade as U-pick markets continue to show saturation in Portage, Carman and Winkler areas. Prices remain stable at \$1.76-\$2.20/kg (\$0.80-\$1.10/lb). However, saturated areas did show price cutting trends as low as \$1.10/kg (\$0.50/lb). Prices of California imports were 30 per cent lower per flat at the wholesale level than local product. Quality factors such as taste presently, are commanding a premium for local strawberries.

New plant imports totalled 2 million, stable over 1986 imports.

Raspberry acres expanded approximately 25 per cent to 80 hectares (200 acres). Winter injury was noted on the Boyne and especially Nova cultivars. Mild spring conditions followed by freezing resulted in high levels of winter injury. Yields were below normal at 3 361 kg/hectare (3,300 lbs/acre). Interest in raspberry production for processing continues to grow and expand the acreage base. Prices were stable at \$1.10-\$2.75/kg (\$0.50-\$1.25/lb). Rural U-picks are not as successful in this marketing approach as farms close to large urban centres. Demand for raspberries for the H.I.D. trade is high. Fresh sale prices ranged from \$2.00-\$2.75/kg (\$0.90-\$1.25/lb).

Based on potential grower inquiries the acreage should expand to meet expected processing tonnages. Expansion is expected to be 25 per cent plus for 1988.

Other crops such as Saskatoons continue to show strong interest. The shortage of planting stock has severely limited the expansion of this fruit crop. Prices continue to be high because of limited fruit supply. These include \$4.40/kg (\$2.00/lb) for U-pick, \$6.60/kg (\$3.00/lb) for picked fruit.

Cottage industry apple producers received \$0.65-\$0.90/kg (\$0.29-\$0.41/lb) for ungraded apples. Some interest in this crop has led to some minor expansion in area.

Greenhouse Production

Continued strong housing starts and national increases in floricultural spending (\$17.00 per capita) have fostered a 10 per cent expansion of the industry 11.5 hectares (28.5 acres). Renovations and converting to more efficient structures have seen a marked increase in the past year. The area in production still does not meet the local demand for floricultural product. Manitoba continues to lose the market share of a 420 million dollar Canadian industry. Presently this share is only 1.5 per cent and based on per capita spending should be in the order of 4.5 per cent. Rural sales are not as buoyant as larger cities and towns where housing starts are active.

Early spring conditions resulted in most bedding plant growers experiencing strong sales volume increases of 5-20 per cent. Prices continue to remain stable over the last five years at \$0.10-\$0.18 per seedling. Similarly prices for pot mums, poinsettias have only increased marginally at 3-5 per cent with some growers.

Opportunities for expanded markets in specialty greenhouse crops continues. High value cut flowers like roses is one example of a local market niche being filled by imports from other provinces and abroad. Chains continue to be one of the fastest growing floricultural retail outlets.

Mushrooms. Manitoba's weekly mushroom production increased approximately 3 per cent to 48 989 kilograms (108,000 pounds) per week. Total annual production for Manitoba was 2.55 million kilograms (5.6 million pounds) with exports accounting for 385 560 kilograms (850,000 pounds).

Manitoba's share of the prairie mushroom production has remained fairly static at 45 per cent. Area in production has not changed but the kilograms per square meter has accounted for the increases. B.C. shipments into the Winnipeg market have decreased and are based on the occasional seasonal overproduction levels. Ontario's oversaturation situation is expected to have a bearing on the Winnipeg market.

Prices remained at \$7.50 for 2.2 kilograms (5 pounds) for button mushrooms and exotic mushrooms were \$7.15/kg.

SEED PRODUCTION

Forage Seeds: Total production of all forage seeds, including foreign and private varieties increased from 6 630 000 kilograms (14,614,000 pounds) in 1986 to 8 860 000 kilograms (19,515,000 pounds) in 1987. The total farm gate value increased from \$8,184,000 to \$14,093,000 in 1987.

There was about a 20 per cent increase in the total area harvested in 1987 and this, coupled with generally good growing conditions resulted in a 33 per cent increase in production. In particular, alfalfa, Birdsfoot Trefoil and sweet clover production doubled from 1986 to 1987.

There continued to be a strong demand for all forage seed commodities, both domestically and for the export markets. Significant price increases were experienced for brome grass, Kentucky Bluegrass and Timothy. In total, farm gate value of all forage seed crops increased 72 per cent in 1987. The following table indicates the production and average farm gate price for a combination of certified and common seed.

TABLE 23 Production and Value of Forage Seeds, 1987

	Production		Price per		Farm Value (\$000)
	kilograms (000)	pounds (000)	kilogram \$	pound \$	
Alfalfa	1 900	4,185	2.42	1.10	4,604
Birdsfoot Trefoil	370	815	3.30	1.50	1,223
Brome grass	40	88	4.40	2.00	176
Kentucky Bluegrass	55	121	2.86	1.30	157
Meadow Fescue	70	154	0.99	0.45	69
Single-Cut Red Clover	325	716	0.99	0.45	322
Sweet Clover	2 800	6,167	0.62	0.28	1,727
Timothy	3 300	7,269	1.76	0.80	5,815
Total	8 860	19,515			14,093

SOURCE: Manitoba Agriculture.

Pedigreed Seed: Because of its importance in Manitoba agriculture, the area seeded to this type of crop production is given in detail. These figures are included in the estimates of total production of cereals, grasses and other crops. A portion of this seed is used in the province and part is exported. These are not included in the records of commercial marketings through elevators but are considered in the total value of crop production. In addition to the area detailed below, 5 949 hectares (14,701 acres) of unlicensed forage seed varieties were grown for export in 1987, compared to 5 149 hectares (12,724 acres) in 1986 and 5 050 hectares (12,480 acres) in 1985.

TABLE 24A

Foundation, Registered and Certified
Seed Production — Hectares, 1987

Kind of Crop	1985	1986	1987
Wheat — Hard Red Spring	27 558	33 136	38 059
— Medium Red Spring	8 662	3 525	2 044
— Soft White Spring	312	720	59
— Durum	5 907	5 832	7 181
— Utility	1 904	1 137	—
— Winter	1 337	219	85
Oats	1 760	2 173	2 788
Barley — 2-Row	756	2 238	5 548
— 6-Row	15 883	17 612	17 507
Rye — Fall	458	196	358
— Spring	30	93	132
Triticale	—	16	4
Flaxseed	16 250	15 617	13 003
Peas — Field	6 384	7 770	11 032
Beans — Faba	526	320	777
— Soybeans	488	121	174
— Field	0.4	24	85
Buckwheat	83	461	395
Canola (Rapeseed) — Argentine type	2 570	2 620	2 321
— Polish type	97	148	132
Alfalfa	4 584	5 166	6 139
Bromegrass	116	81	63
Kentucky Bluegrass	42	16	142
Meadow Fescue	38	85	97
Sweet Clover — Yellow Blossom	141	107	307
Timothy	6 687	7 141	9 166
Red Clover — Single- and Double-cut	55	113	—
Birdsfoot Trefoil	1 065	1 097	1 374
Mustard (Yellow & Brown)	295	358	—
Radish	—	—	229
Lentils	1 059	781	1 532
Canary Grass	—	245	333
Italian Rye Grass	—	—	—

TABLE 24B

Foundation, Registered and Certified
Seed Production — Acres, 1987

Kind of Crop	1985	1986	1987
Wheat — Hard Red Spring	68,097	81,880	94,047
— Medium Red Spring	21,405	8,710	5,050
— Soft White Spring	770	1,780	145
— Durum	14,620	14,410	17,745
— Utility	4,706	2,810	—
— Winter	3,304	540	210
Oats	4,349	5,370	6,890
Barley — 2-Row	1,869	5,530	13,710
— 6-Row	39,247	43,520	43,260
Rye — Fall	1,132	485	885
— Spring	75	230	325
Triticale	—	40	10
Flaxseed	40,155	38,590	32,130
Peas — Field	15,774	19,200	27,260
Beans — Faba	1,299	790	1,920
— Soybeans	1,207	300	430
— Field	1	60	210
Buckwheat	204	1,140	975
Canola (Rapeseed) — Argentine type	6,350	6,475	5,735
— Polish type	240	365	325
Alfalfa	11,327	12,765	15,170
Bromegrass	287	200	155
Kentucky Bluegrass	105	40	350
Meadow Fescue	93	210	240
Sweet Clover — Yellow Blossom	348	265	758
Timothy	16,524	17,645	22,650
Red Clover — Single-cut	135	280	—
Birdsfoot Trefoil	2,632	2,710	3,395
Mustard (Yellow & Brown)	728	885	565
Radish	—	—	—
Lentils	2,618	1,930	3,785
Canary Grass	485	605	823
Italian Rye Grass	—	—	—

In addition to the above area, 6 047 hectares (14,943 acres) of forage seed varieties, not registered in Canada were grown for export in 1987.

TABLE 25

Certified Potato Production

	Number Growers	Hectares Inspected	Hectares Passed Inspection 1987	Production Graded Stock	Production (tonnes) 1986
Russet Burbank	12	1 185	1 185	27 260	16 540
Norland	6	88	88	1 740	1 260
Norchip	4	66	66	1 450	1 020
Red Pontiac	4	39	39	1 010	1 110
Kennebec	3	7	7	100	180
Norgold Russet	1	3	3	70	20
Carlton	2	5	5	80	90
Shepody	6	111	111	2 370	780
Conestoga	3	13	13	250	100
Yukon Gold	4	27	27	590	10
Monona	2	5	5	120	20
All Varieties		1 549	1 549	35 040	21 130

	Number Growers	Acres Inspected	Acres Passed Inspection 1987	Production Graded Stock	Production (cwt) 1986
Russet Burbank	12	2 930	2 930	601.080	364.710
Norland	6	220	220	38.370	27.780
Norchip	4	160	160	31.970	22.490
Red Pontiac	4	100	100	22.270	24.480
Kennebec	3	20	20	2.210	3.970
Norgold Russet	1	10	10	1.540	440
Carlton	2	10	10	1.760	1.980
Shepody	6	270	270	52.260	17 200
Conestoga	3	30	30	5.510	2,210
Yukon Gold	4	70	70	13.010	220
Monona	2	10	10	2 650	440
All Varieties		3 830	3 830	772 630	465.920

SOURCE Agriculture Canada

MARKETING OF MAJOR CROPS

TABLE 26 Farm Supply and Disposition of Major Crops,
Manitoba, 1983-84 to 1986-87

	All						Canola
	Wheat	Durum	Oats	Barley	Rye	Flaxseed	(Rapeseed)
1983-84							
SUPPLY			thousand tonnes				
Opening Stocks - Aug. 1	110	4	110	375	25	45	10
Production	3 410	144	401	1 589	163	297	397
TOTAL SUPPLY	3 520	148	511	1 964	188	342	407
DISPOSITION							
Marketings	3 029	123	79	1 232	163	285	304
Seed Requirements	170	10	23	64	7	19	4
Feed, Waste & Dockage	251	10	349	598	13	33	97
Carryover, July 31	70	5	60	70	5	5	2
TOTAL DISPOSITION	3 520	148	511	1 964	188	342	407
SUPPLY			thousand bushels				
Opening Stocks - Aug. 1	4,042	147	7,132	17,224	984	1,772	440
Production	125,297	5,291	26,002	72,983	6,417	11,692	17,505
TOTAL SUPPLY	129,339	5,438	33,134	90,207	7,401	13,464	17,945
DISPOSITION							
Marketings	111,298	4,520	5,123	56,586	6,417	11,220	13,404
Seed Requirements	6,246	367	1,491	2,940	276	748	176
Feed, Waste & Dockage	9,223	367	22,630	27,466	512	1,299	4,277
Carryover, July 31	2,572	184	3,891	3,215	197	197	88
TOTAL DISPOSITION	129,339	5,438	33,134	90,207	7,401	13,464	17,945
1984-85							
SUPPLY			thousand tonnes				
Opening Stocks - Aug. 1	70	5	60	70	5	5	2
Production	3 743	191	432	1 938	196	439	544
TOTAL SUPPLY	3 813	196	492	2 008	201	444	546
DISPOSITION							
Marketings	3 266	145	80	1 327	153	364	474
Seed Requirements	183	11	23	66	7	19	3
Feed, Waste & Dockage	324	35	339	545	31	58	64
Carryover, July 31	40	5	50	70	10	3	5
TOTAL DISPOSITION	3 813	196	492	2 008	201	444	546
SUPPLY			thousand bushels				
Opening Stocks - Aug. 1	2,572	184	3,891	3,215	197	197	88
Production	137,533	7,018	28,012	89,012	7,716	17,283	23,986
TOTAL SUPPLY	140,105	7,202	31,902	92,227	7,913	17,480	24,074
DISPOSITION							
Marketings	120,006	5,328	5,187	60,949	6,023	14,330	20,900
Seed Requirements	6,724	404	1,491	3,031	276	748	132
Feed, Waste & Dockage	11,905	1,286	21,981	25,032	1,220	2,283	2,822
Carryover, July 31	1,470	184	3,242	3,215	394	118	220
TOTAL DISPOSITION	140,105	7,202	31,902	92,227	7,913	17,480	24,074

TABLE 26 (cont'd.)

	All					Canola	
	Wheat	Durum	Oats	Barley	Rye	Flaxseed	(Rapeseed)
1985-86							
SUPPLY	thousand tonnes						
Opening Stocks — Aug. 1 . . .	40	5	50	70	10	3	5
Production	5 226	327	494	2 526	167	559	635
TOTAL SUPPLY	5 266	332	544	2 596	177	562	640
DISPOSITION							
Marketings	4 836	277	101	1 582	119	453	536
Seed Requirements	189	15	18	56	3	18	3
Feed, Waste & Dockage	201	38	326	828	30	71	80
Carryover, July 31	40	2	100	130	25	20	20
TOTAL DISPOSITION	5 266	332	544	2 596	177	562	640
SUPPLY	thousand bushels						
Opening Stocks — Aug. 1 . . .	1,470	184	3,242	3,215	394	118	220
Production	192,024	12,015	32,032	116,019	6,574	22,007	27,998
TOTAL SUPPLY	193,494	12,199	35,274	119,234	6,968	22,125	28,219
DISPOSITION							
Marketings	177,694	10,178	6,549	72,661	4,645	17,834	23,633
Seed Requirements	6,945	551	1,167	2,572	118	709	132
Feed, Waste & Dockage	7,386	1,396	25,029	38,030	1,181	2,795	3,527
Carryover, July 31	1,470	73	6,484	5,971	984	787	882
TOTAL DISPOSITION	193,494	12,199	39,229	119,234	6,968	22,125	28,219
1986-87							
SUPPLY	thousand tonnes						
Opening Stocks — Aug. 1 . . .	40	2	100	130	25	20	20
Production	4 477	373	463	1 851	61	572	578
TOTAL SUPPLY	4 517	375	563	1 981	86	592	598
DISPOSITION							
Marketings	3 438	285	92	1 003	73	447	528
Seed Requirements	185	13	18	61	2	15	3
Feed, Waste & Dockage	345	37	373	747	-9	80	57
Carryover, July 31	550	40	80	170	20	50	10
TOTAL DISPOSITION	4 517	375	563	1 981	86	592	598
SUPPLY	thousand bushels						
Opening Stocks — Aug. 1 . . .	1,470	73	6,484	5,971	984	787	882
Production	164,503	13,706	30,022	85,016	2,402	22,518	25,485
TOTAL SUPPLY	165,973	13,779	36,506	90,987	3,386	23,306	26,367
DISPOSITION							
Marketings	126,326	10,472	5,965	46,068	2,874	17,597	23,281
Seed Requirements	6,798	478	1,167	2,802	79	591	132
Feed, Waste & Dockage	12,677	1,360	24,186	34,310	-354	3,149	2,513
Carryover, July 31	20,209	1,470	5,187	7,808	787	1,968	441
TOTAL DISPOSITION	165,973	13,779	36,506	90,987	3,386	23,306	26,367

SOURCE: Statistics Canada.

TABLE 27 Stocks of Major Crops on Farms, Manitoba, July 31, 1983-1987

	All Wheat	Oats	Barley	Rye	Canola (Rapeseed)	Flaxseed
			thousand tonnes			
1983	110	110	375	25	10	45
1984	70	60	70	5	2	5
1985	40	50	70	15	5	3
1986	40	100	130	25	20	20
1987	530	80	160	20	10	50
			thousand bushels			
1983	4,042	7,133	17,224	984	441	1,772
1984	2,572	3,891	3,215	197	88	197
1985	1,470	3,242	3,215	591	220	118
1986	1,470	6,484	5,971	984	882	787
1987	19,474	5,187	7,349	787	441	1,968

SOURCE: Statistics Canada.

TABLE 28 Producer Marketings, Manitoba, Crop Year 1986/87

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
1986					'000 tonnes			
Aug.	5	7	12	2	34	15	3	8
Sept.	20	27	47	4	84	7	13	71
Oct.	238	14	252	9	70	8	123	94
Nov.	224	20	244	12	165	4	57	60
Dec.	396	27	423	8	154	3	26	54
1987								
Jan.	260	18	277	8	62	7	19	50
Feb.	187	24	211	8	52	4	25	47
March	135	17	152	6	48	3	24	56
April	530	56	586	8	65	4	47	52
May	263	25	238	8	66	6	36	47
June	484	13	498	7	103	5	33	37
July	462	37	499	12	102	8	42	28
TOTAL	3 153	285	3 438	92	1 003	73	447	604
	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
1986					'000 bushels			
Aug.	184	257	441	130	1,562	591	118	353
Sept.	735	992	1,727	259	3,858	276	512	3,136
Oct.	8,745	514	9,259	584	3,215	315	4,842	4,145
Nov.	8,231	735	8,966	778	7,578	157	2,244	2,646
Dec.	14,551	992	15,543	519	7,073	118	1,024	2,381
1987								
Jan.	9,553	661	10,178	519	2,848	276	748	2,205
Feb.	6,871	882	7,753	519	2,388	157	984	2,072
March	4,960	625	5,585	389	2,205	118	945	2,469
April	19,474	2,058	21,532	519	2,985	157	1,850	2,293
May	7,826	919	8,745	519	3,031	236	1,417	2,072
June	17,784	478	18,299	454	4,731	197	1,299	1,631
July	16,976	1,360	18,335	778	4,685	315	1,653	1,235
TOTAL	115,854	10,472	126,326	5,965	46,068	2,874	17,597	26,632

TABLE 29

**Marketings of Major Crops, Manitoba
Crop Years 1982/83 to 1986/87**

	All Wheat	Oats	Barley	Rye	Canola (Rapeseed)	Flaxseed
			thousand tonnes			
1982/83	3 480	85	1 390	183	345	353
1983/84	3 029	79	1 232	163	304	285
1984/85	3 266	80	1 327	153	474	364
1985/86	4 836	101	1 582	119	536	453
1986/87	3 438	92	1 003	73	528	447
			thousand bushels			
1982/83	127,869	5,512	63,843	7,204	15,212	13,897
1983/84	111,298	5,123	56,586	6,417	13,404	11,220
1984/85	120,006	5,187	60,949	6,023	20,900	14,330
1985/86	177,694	6,543	72,661	4,685	23,633	17,834
1986/87	126,326	5,965	46,068	2,874	23,281	17,597

SOURCE: Statistics Canada; Agriculture Canada (C.G.C.)

TABLE 30

**Permit Holders, Quota Areas, Manitoba,
1982/83 to 1986/87**

	Permit Book Holders	Hectares	Quota Areas thousands	Acres
1983/84	25,163	5 868		14,500
1984/85	24,907	5 939		14,676
1985/86	24,641	6 064		14,984
1986/87	23,904	5 956		14,718

SOURCE: Agriculture Canada — Grain Elevators in Canada.

TABLE 31 Estimated Gradings of Wheat and Barley, 1986/1987, 1987/1988

	Bread Wheat (per cent)			Durum Wheat (per cent)	
	1986/87	1987/88		1986/87	1987/88
No. 1 C.W.R.S.	21.7	10.9	No. 1 C.W. Amber Durum	—	—
No. 2 C.W.R.S.	30.4	40.9	No. 2 C.W. Amber Durum	1.0	—
No. 3 C.W.R.S.	24.3	41.3	No. 3 C.W. Amber Durum	26.2	22.7
No. 1 & 2 Utility	2.5	1.3	No. 4 C.W. Amber Durum	56.7	66.5
Others	21.1	5.6	No. 5 C.W. Amber Durum	16.1	10.8
TOTAL ALL GRADES	100.0	100.0	TOTAL ALL GRADES	100.0	100.0

Barley Gradings 1986*

Grade	Percentage of Deliverable Quantities on Farms Crop Year 1986-87 %
2 C.W. and higher, 2-Row and 6-Row	4.5
No. 1 Feed	9.3
No. 2 Feed	78.8
No. 3 Feed and lower	7.4
TOTAL ALL GRADES	100.0

SOURCE: Canadian Wheat Board — unpublished.

TABLE 31 (cont'd)

Barley Gradings 1987	
Grade	Percentage of Deliverable Quantities on Farms Crop year 1987-88 %
Special Select	3.1
Select	6.8
1 C.W.	82.1
2 C.W. and Lower	8.0
TOTAL ALL GRADES	100.0

*Grading designations were changed for the 1986-87 crop year as follows:

Regular Pool Barley	Designated Barley
1CW 6-Row } 1CW 2-Row } 2CW 6-Row } 2CW 2-Row } 1Feed } 2Feed } 3Feed }	1CW 2-Row } Special Select 2CW 2-Row } CW 2-Row 1CW 6-Row } Special Select 2CW 6-Row } CW 6-Row 1Feed 2-Row — Select CW 2-Row 1Feed 6-Row — Select CW 6-Row

TABLE 32 Average Protein Content of Spring Wheat in Manitoba, 1986, 1987

Per cent Protein in Wheat No. 1 C.W.R.S.
(13.5% moisture content basis)

Crop District	1986		1987	
	Mean	Range	Mean	Range
1	13.5	11.0 - 15.5	14.1	11.0 - 17.3
2	13.4	10.8 - 16.2	13.9	10.5 - 16.4
3	13.0	10.4 - 15.7	12.8	9.1 - 16.2
4	13.1	10.8 - 17.0	13.7	10.7 - 16.6
5	12.3	10.5 - 15.5	13.2	11.2 - 15.5
6	12.7	9.1 - 14.8	13.3	8.9 - 16.0
7	13.5	10.2 - 16.7	13.6	10.0 - 16.5
8	13.9	11.1 - 16.2	14.2	11.0 - 16.7
9	13.6	10.6 - 15.7	13.3	10.2 - 17.4
10	13.3	11.9 - 15.2	13.5	10.8 - 15.1
11	13.0	10.9 - 15.3	13.7	10.2 - 16.5
12	13.1	11.2 - 15.3	12.8	9.7 - 15.4
PROVINCE	13.3	9.1 - 17.0	13.6	8.9 - 17.4

SOURCE: Agriculture Canada (C G C.), Grain Research Laboratory

TABLE 33

Canadian Wheat Board
Monthly Average Cash Grain Prices,
Basis In-Store Lower St. Lawrence, 1986-1987

A. 1986/87 Wheat Crop Prices

— Dollars per Tonne at St. Lawrence —
 — Wheat Board Quotations —

Grade	1986						Initial
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Payment 1986-87
1 C.W. Red Spring 13.5%	184.42	184.12	180.84	184.24	184.87	185.26	132.21
2 C.W. Red Spring 13.5%	178.82	178.52	175.24	178.64	179.27	179.66	125.21
3 C.W. Red Spring	168.82	168.52	165.24	168.64	169.27	169.66	110.21
No. 1 Canada Utility	164.82	164.52	161.24	164.64	165.27	165.66	104.21
No. 2 Canada Utility	156.82	156.52	153.24	156.64	157.27	157.66	92.21
1 C.W. Amber Durum	171.47	176.67	187.42	196.51	203.37	204.47	130.00
2 C.W. Amber Durum	166.47	171.67	182.42	191.51	198.37	199.47	127.00
3 C.W. Amber Durum	161.47	166.67	177.42	186.51	193.37	194.47	125.00
----- 1987 -----							
	Feb.	March	April	May	June	July	Average
1 C.W. Red Spring 13.5%	184.14	183.38	176.28	183.26	173.08	166.36	180.72
2 C.W. Red Spring 13.5%	178.54	177.78	170.68	177.66	167.48	160.76	175.12
3 C.W. Red Spring	168.54	167.78	160.68	167.66	157.48	150.76	165.12
No. 1 Canada Utility	164.54	163.78	156.68	163.66	153.48	146.76	161.12
No. 2 Canada Utility	156.54	155.78	148.68	155.66	145.48	138.76	153.12
1 C.W. Amber Durum	203.17	198.27	200.37	209.45	203.48	185.15	194.97
2 C.W. Amber Durum	198.17	193.27	195.37	204.45	198.48	180.15	189.97
3 C.W. Amber Durum	193.17	188.27	190.37	199.45	193.48	175.15	184.97

B. 1986/87 Oat Crop Prices

— Dollars per Tonne at Thunder Bay
 — Winnipeg Commodity Exchange Cash Quotations —

Grade	1986						Initial
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Payment 1986-87
1 C.W.	78.00	78.83	81.78	84.47	80.27	78.09	81.00
2 C.W.	78.00	78.83	81.78	84.47	80.27	78.09	79.00
Ex. 1 Feed	78.00	78.83	81.78	84.47	80.27	78.09	77.00
1 Feed	78.00	78.83	81.78	84.47	80.27	78.09	75.00
2 Feed	74.50	75.33	78.28	80.97	76.77	74.73	70.92
3 Feed	71.50	72.33	75.28	77.97	73.77	71.73	67.92
----- 1987 -----							
	Feb.	March	April	May	June	July	Average
1 C.W.	86.29	87.11	71.75	63.62	69.62	62.81	76.81
2 C.W.	86.29	87.11	71.75	63.62	69.62	62.81	76.81
Ex. 1 Feed	86.29	87.11	71.75	63.62	69.62	62.81	76.81
1 Feed	86.29	87.11	71.75	63.62	69.62	62.81	76.81
2 Feed	82.79	86.63	68.18	59.31	64.87	59.31	73.15
3 Feed	79.79	80.63	65.18	56.31	61.83	56.31	70.14

C. 1986/87 Barley Crop Prices

— Dollars per Tonne at Thunder Bay — — Winnipeg Commodity Exchange Cash Quotations —							
	1986					1987	Initial
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Payment 1986-87
Special Select 6-Row	81.75	83.16	85.47	87.22	91.22	83.27	155.00
Select 6-Row	81.75	83.16	85.47	87.22	91.22	83.27	150.00
Special Select CW 2-Row	81.75	83.16	85.47	87.22	91.22	83.27	165.00
Select 2-Row	81.75	83.16	85.47	87.22	91.22	83.27	160.00
1 CW	81.75	83.16	85.47	87.22	91.22	83.27	80.00
2 CW	79.55	79.69	83.20	86.17	90.22	82.27	77.00
----- 1987 -----							
	Feb.	March	April	May	June	July	Average
Special Select 6-Row	80.78	77.15	76.52	80.07	79.25	69.00	81.14
Select 6-Row	80.78	77.15	76.52	80.07	79.25	69.00	81.14
Special Select CW 2-Row	80.78	77.15	76.52	80.07	79.25	69.00	81.14
Select 2-Row	80.78	77.15	76.52	80.07	79.25	69.00	81.14
1 CW	80.78	77.15	76.52	80.07	79.25	69.00	81.14
2 CW	79.78	76.15	75.52	79.07	78.25	68.00	79.72

D. 1986/87 Canola (Rapeseed) Crop Prices

— Dollars per Tonne at Thunder Bay — — Winnipeg Commodity Exchange Cash Quotations —							
Grade	1986					1987	
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	
1 Canada	206.33	204.22	209.47	224.45	216.39	213.92	
2 Canada	191.23	191.22	196.47	211.45	203.39	200.92	
----- 1987 -----							
	Feb.	March	April	May	June	July	Average
1 Canada	200.13	204.64	206.63	225.36	238.94	232.65	215.34
2 Canada	186.68	180.96	192.25	212.36	225.94	219.65	201.09

E. 1986/87 Flaxseed Crop Prices

— Dollars per Tonne at Thunder Bay — — Winnipeg Commodity Exchange Cash Quotations —							
Grade	1986					1987	
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	
1 Canada	231.82	234.98	230.72	225.34	210.53	205.07	
2 Canada	229.72	232.98	228.72	223.33	208.53	203.07	
3 Canada	204.72	199.98	195.72	190.34	175.53	170.07	
----- 1987 -----							
	Feb.	March	April	May	June	July	Average
1 Canada	191.46	184.76	194.72	204.70	205.83	200.25	209.83
2 Canada	189.46	182.76	192.72	202.70	203.83	198.25	207.82
3 Canada	156.46	149.76	159.72	169.70	170.83	165.25	175.46

F. 1986/87 Rye Crop Prices

— Dollars per Tonne at Thunder Bay —
— Winnipeg Commodity Exchange Cash Quotations —

	1986						1987
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	
1 Canada Western	93.35	97.87	98.82	96.62	93.66	90.76	
2 Canada Western	91.35	95.87	96.82	94.62	91.66	88.76	
3 Canada Western	63.35	67.87	68.82	66.62	63.66	60.76	
Ergoty	54.35	61.68	59.82	57.62	54.66	51.76	
----- 1987 -----							
	Feb.	March	April	May	June	July	Average
1 Canada Western	85.54	83.48	84.42	96.25	97.37	87.50	92.10
2 Canada Western	83.54	81.48	82.42	94.25	95.37	85.50	90.10
3 Canada Western	55.54	53.48	54.42	66.25	67.37	57.50	62.10
Ergoty	46.54	44.48	45.42	57.25	58.37	48.50	53.34

TABLE 34A Grain Stored in Country Elevators at July 31, Manitoba

Year	All	— tonnes —				Canola	Rye
	Wheat	Oats	Barley	Flaxseed	(Rapeseed)		
1973-74	348 800	41 500	290 200	23 700	13 800	11 100	
1974-75	171 100	84 000	159 500	27 900	24 900	20 400	
1975-76	220 300	75 000	77 200	75 600	46 600	34 100	
1976-77	225 400	43 300	225 400	37 500	9 700	48 900	
1977-78	480 900	75 700	129 700	106 800	29 200	37 800	
1978-79	497 400	58 600	96 900	84 900	70 600	32 300	
1979-80	327 900	7 800	45 800	130 600	97 500	38 500	
1980-81	266 200	14 900	218 300	54 500	61 500	21 900	
1981-82	231 700	14 700	94 600	35 300	40 200	25 800	
1982-83	420 400	15 800	138 900	86 900	24 900	52 800	
1983-84	374 000	9 500	57 600	20 800	4 300	43 500	
1984-85	82 400	14 800	115 300	20 400	43 900	46 300	
1985-86	375 300	26 700	130 000	34 900	44 700	21 500	
1986-87	627 600	14 900	64 600	60 400	16 000	17 600	

SOURCE: Canadian Grain Commission. Visible Grain Supplies and Disposition Crop Years 1973/1987.

TABLE 34B Grain Stored in Country Elevators at July 31, Manitoba

Year	All	— million bushels —				Canola	Rye
	Wheat	Oats	Barley	Flaxseed	(Rapeseed)		
1973-74	12.8	2.7	13.3	0.93	0.61	0.44	
1974-75	6.3	5.4	7.3	1.1	1.1	0.80	
1975-76	8.1	4.9	3.5	3.0	2.1	1.3	
1976-77	8.3	2.8	10.4	1.5	0.43	1.9	
1977-78	17.7	4.9	6.0	4.2	1.3	1.5	
1978-79	18.3	3.8	4.4	3.3	3.1	1.3	
1979-80	12.0	0.51	2.1	5.1	4.3	1.5	
1980-81	9.8	1.0	10.0	2.1	2.7	0.86	
1981-82	8.5	1.0	4.3	1.4	1.8	1.0	
1982-83	15.4	1.0	6.4	3.4	1.1	2.1	
1983-84	13.7	0.62	2.6	0.82	0.19	1.7	
1984-85	3.0	1.0	5.3	0.8	1.9	1.8	
1985-86	13.8	1.7	6.0	1.4	2.0	0.85	
1986-87	23.1	1.0	3.0	2.4	0.71	0.69	

SOURCE: Agriculture Canada; Statistics Canada.

TABLE 35A

Total Grain Supply on Farms by Crop Year, Manitoba

Crop Year	All Wheat	Oats	— tonnes — Barley Flaxseed		Canola (Rapeseed)	Rye
Stocks on Farms, July 31, 1987						
Production, 1987/88	550 000	80 000	170 000	50 000	10 000	20 000
Total Farm Supply	3 998 000	416 000	1 981 000	429 000	590 000	46 000
1987-88	4 548 000	496 000	2 214 000	479 000	600 000	66 000
1986-87	4 518 000	563 000	1 981 000	614 000	598 000	86 000
1985-86	5 266 000	605 000	2 596 000	562 000	640 000	177 000
1984-85	3 812 000	507 000	2 008 000	444 000	546 000	201 000
1983-84	3 520 000	511 000	1 964 000	342 000	407 000	188 000
1982-83	3 971 000	584 000	2 573 000	447 000	413 000	228 000
1981-82	3 381 000	493 000	2 395 000	275 000	352 000	183 000
1980-81	2 232 000	324 000	1 699 000	287 000	386 000	95 000
1979-80	3 157 000	432 000	1 807 000	511 000	633 000	131 000
1978-79	3 320 000	817 000	2 286 000	356 000	585 000	112 000
1977-78	3 320 000	1 040 000	2 134 000	343 000	295 000	86 000
1976-77	2 885 000	1 033 000	1 568 000	170 000	152 000	76 000
1975-76	2 177 000	833 000	1 176 000	228 000	291 000	91 000
1974-75	1 742 000	771 000	1 328 000	176 000	198 000	74 000

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 35B

Total Grain Supply on Farms by Crop Year, Manitoba

Year	All Wheat	Oats	— million bushels — Barley Flaxseed		Canola (Rapeseed)	Rye
Stocks on Farms, July 31, 1987						
Production, 1987/88	20.2	5.2	7.8	2.0	0.44	0.79
Total Farm Supply	146.9	27.0	91.0	16.9	26.0	1.8
1987-88	167.1	32.2	101.7	18.9	26.5	2.6
1986-87	166.0	36.5	91.0	24.2	26.4	3.4
1985-86	193.5	39.2	119.2	22.1	28.2	7.0
1984-85	140.1	32.9	92.2	17.5	24.1	7.9
1983-84	129.3	33.1	90.2	13.5	17.9	7.4
1982-83	145.9	37.9	118.2	17.6	18.2	9.0
1981-82	124.2	32.0	110.0	10.8	15.5	7.2
1980-81	82.0	21.0	78.0	11.3	17.0	3.7
1979-80	116.0	28.0	83.0	20.1	27.9	5.2
1978-79	122.0	53.0	105.0	14.0	25.8	4.4
1977-78	122.0	68.0	98.0	13.5	13.0	3.4
1976-77	106.0	67.0	72.0	6.7	6.7	3.0
1975-76	80.0	54.0	54.0	9.0	12.8	3.6
1974-75	64.0	50.0	61.0	6.9	8.7	2.9

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 36 Grain Storage Capacity in Manitoba, August 1, 1986 - 1987

Kind of Elevator	All Licensed Elevators			
	1986		1987	
	Number	Capacity (000 tonnes)	Number	Capacity (000 tonnes)
Terminal	2	177.9	3	197.1
Process Elevators	13	152.9	13	152.9
Primary	292	1 114.8	288	1 106.3
TOTAL — Licensed Elevators	307	1 445.6	304	1 456.2
		(000 bushels)		(000 bushels)
Terminal	2	6,352.7	3	7,038.3
Process Elevators	13	5,460.0	13	5,460.0
Primary	292	39,808.7	288	39,505.2
TOTAL — Licensed Elevators	307	51,621.4	304	52,003.6

SOURCE: Agriculture Canada.

LIVESTOCK PRODUCTION

CATTLE

Production Value

During the past year, the production value of Manitoba cattle decreased by \$26.2 million from \$269.6 million in 1986 to \$243.4 million in 1987. The estimated average value per animal decreased from \$684 to \$640 while production decreased from 394,100 head to 380,300 head. The sale of more calves and fewer slaughter animals was the main reason for the lower value per head in 1987, despite higher cattle prices.

Marketings

Excluding estimated sales to Alberta and Saskatchewan, net commercial marketings of Manitoba origin cattle and calves decreased by 79,010 head from 1986, to total 329,710 in the current year. Marketings of slaughter cattle decreased by 76,880 head whereas marketings of slaughter calves declined by 1,270 head. Recorded shipments of Manitoba origin feeder cattle to the U.S. and Ontario were 94,410 head, a decrease of 20,740 head from a year earlier. Export sales of Manitoba slaughter cattle and calves to Ontario, Quebec and the U.S., increased from 19,900 in 1986 to 39,780 in 1987. Estimated 1987 marketings of Manitoba feeder cattle and calves to Alberta and Saskatchewan were about 90,000 head.

TABLE 37 Slaughter Cattle Sold by Month: Manitoba Origin

Month	Slaughter Cattle	Slaughter Calves	TOTAL (excluding exports)
January	16,450	227	16,677
February	16,948	218	17,166
March	23,384	218	23,602
April	16,483	151	16,634
May	16,917	144	17,061
June	18,654	145	18,799
July	14,129	153	14,282
August	12,819	151	12,970
September	15,253	184	15,437
October	14,727	228	14,955
November	14,296	194	14,490
December	13,271	172	13,443
YEAR	193,331	2,185	195,516

SOURCE: Agriculture Canada.

Disposal Sales

Of the total 239,352 cattle and 2,202 calves slaughtered in Manitoba during 1987, more than 23 per cent came from Saskatchewan. Of the total cattle slaughtered, 87 per cent were sold directly to packing plants on a rail grade basis and 13 per cent were marketed through public stockyards and auction markets. Almost 41,800 slaughter cattle were marketed through the Manitoba Beef Commission. In addition to the 195,516 Manitoba-produced cattle and calves slaughtered in Canada, about 25,900 slaughter cattle and calves were exported to the United States.

Inventory

There were 1,114,720 head of cattle and calves on Manitoba farms as of June 3, 1986. This was a decrease of 5.2 per cent from the 1981 level. Beef cows declined by 11,300 head over the five years, while replacement heifers, slaughter heifers, steers and calves were down by 12,700, up by 8,700 and down by 12,500 and 10,000 head respectively.

TABLE 38 Cattle Numbers on Manitoba Farms, June 3, 1986

Crop District	Bulls	Cows (milk)	Cows (beef)	Heifers Over 1 year (milk)	Heifers	Steers Over 1 Year	Calves Under 1 Year	TOTAL
					Over 1 year (beef) (slaughter/ replacement)			
1.....	1,846	2,247	34,676	711	12,039	10,451	32,906	94,876
2.....	2,514	4,808	43,114	2,034	15,670	18,099	42,588	128,827
3.....	1,877	4,021	36,359	1,406	11,682	10,967	34,642	100,954
4.....	1,378	1,760	23,389	480	7,001	5,609	21,918	61,535
5.....	621	786	13,089	227	4,025	3,838	11,764	34,350
6.....	2,706	2,566	56,921	893	15,470	12,011	51,832	142,399
7.....	1,948	8,737	37,494	4,183	13,177	15,523	37,738	118,800
8.....	1,835	7,792	26,625	3,384	11,346	16,878	29,155	97,015
9.....	1,187	18,700	13,351	9,411	6,485	6,944	21,229	77,307
10.....	575	2,420	10,041	1,110	2,816	1,745	9,620	28,327
11.....	974	6,525	15,272	3,248	6,058	6,156	16,385	54,618
12.....	3,025	4,605	67,795	2,147	20,304	16,545	61,291	175,712
PROVINCE	20,486	64,967	378,126	29,234	126,073	124,766	371,068	1,114,720

SOURCE: Statistics Canada.

TABLE 39 Beef Carcasses Graded in Federally & Provincially Inspected Packing Plants

	1986		1987	
	Number	%	Number	%
Grade:				
A1	180,482	47.8	120,832	50.5
A2	70,521	18.7	42,190	17.6
A3	11,176	3.0	6,366	2.7
A4	2,518	0.7	1,019	0.4
B1	10,720	2.8	5,328	2.2
B2	3,342	0.9	1,428	0.6
B3	3,299	0.9	2,062	0.9
C1	5,699	1.5	2,658	1.1
C2	1,656	0.4	866	0.4
D1	23,106	6.1	12,651	5.3
D2	18,378	4.9	10,753	4.5
D3	22,960	6.1	12,443	5.2
D4	3,766	1.0	1,402	0.6
E	1,296	0.3	619	0.3
Graded	358,919	95.1	220,617	92.2
Ungraded	18,510	4.9	18,735	7.8
Total	377,429	100.0	239,352	100.0

SOURCE: Agriculture Canada

Replacement Cattle Marketed in Manitoba

In 1987, 318,000 feeder cattle marketings were recorded by Manitoba public stockyards and auction markets. This was an increase of 18 per cent from the previous year. Over 245,700 feeder cattle and calves were sold through Manitoba's eight major stockyards and auction markets, while 72,200 replacement cattle were marketed through the nine smaller markets in the province. Almost 94,280 feeder cattle and calves were shipped to eastern markets in 1987, a decrease of 18 per cent from 1986. Manitoba exported 130 feeders to the United States in 1987, down from 750 in 1986. It is estimated that about 60,000 and 30,000 Manitoba-produced feeder cattle and calves were purchased by Alberta and Saskatchewan buyers respectively in 1987. This number compares to an estimated 50,000 feeder cattle and calves moving west from Manitoba in 1986 and almost none in 1985 and previous years.

TABLE 40

Cattle Prices, St. Boniface Stockyards, 1987

	Cents per Kilogram Live	Dollars per 100 Pounds Live
SLAUGHTER CATTLE AND CALVES		
STEERS		
A1,A2 + 450 kg (+ 1,000 lb)	182.5	82.80
A1,A2 - 450 kg (- 1,000 lb)	182.4	82.73
A3,A4	165.0	74.84
B and C	153.4	69.60
HEIFERS		
A1,A2 + 400 kg (+ 850 lb)	178.0	80.75
A1,A2 - 400 kg (- 850 lb)	169.3	76.79
A3,A4	154.8	70.23
B and C	139.6	63.33
COWS		
D1,D2	122.1	55.39
D3	116.2	52.72
D4	103.4	46.91
BULLS	152.7	69.26
SLAUGHTER CATTLE AVERAGE	138.6	62.87
CALVES		
Good Veal	256.5	116.36
Good Butcher	202.4	91.80
Common All Weights	164.4	74.56
SLAUGHTER CALVES AVERAGE	219.9	99.76
FEEDERS		
GOOD STEERS		
+ 400 kg (+ 900 lb)	187.4	85.01
350-400 kg (800-900 lb)	193.7	87.94
300-350 kg (700-800 lb)	204.6	92.79
250-300 kg (600-700 lb)	218.9	99.30
Common and Medium + 250 kg (+ 600 lb)	162.0	73.49
GOOD STEER CALVES		
200-250 kg (500-600 lb)	242.7	110.08
150-200 kg (400-500 lb)	256.5	116.34
Under 150 kg (under 400 lb)	262.9	119.25
Common and Medium - 250 kg (- 600 lb)	178.6	81.01
GOOD HEIFERS		
+ 350 kg (+ 800 lb)	177.9	80.71
300-350 Kg (700-800 lb)	187.0	84.84
250-300 kg (600-700 lb)	196.2	88.99
200-250 kg (500-600 lb)	218.6	99.15
Common and Medium + 200 kg (+ 500 lb)	154.1	69.88
GOOD HEIFER CALVES		
150-200 kg (400-500 lb)	235.9	107.00
100-150 kg (300-400 lb)	244.8	111.06
Under 100 kg (under 300 lb)	265.5	120.41
Common and Medium - 200 kg (- 500 lb)	177.4	80.49
FEEDER COWS	127.0	57.62
ALL FEEDERS AVERAGE	205.4	93.16

SOURCE: Agriculture Canada.

Prices

The weighted average price for top grade steers and D1, 2 cows in 1987 increased by 8.1 per cent and 10.6 per cent, respectively, from the 1986 level. The weighted average prices in 1987 for good veal calves and good feeder steers over 400 kilograms (900 pounds), were up by 17.6 and 13.0 per cent, respectively, compared to 1986.

TABLE 41A **St. Boniface Stockyards Prices**
— Selected Grades —

Month	A1,2 Steers			D1,2 Cows			Feeder Steers 350-400 kilograms			Good Veal Calves		
	5 Yr. 1986 1987			5 Yr. 1986 1987			5 Yr. 1986 1987			5 Yr. 1986 1987		
January	163.1	168.8	174.4	97.6	99.7	113.1	157.5	163.5	179.9	228.9	213.1	227.4
February	162.4	162.8	171.4	104.9	109.9	116.9	160.9	164.1	181.8	225.2	214.0	228.3
March	163.7	159.7	172.4	111.4	112.6	119.6	158.9	164.7	182.5	242.5	216.9	232.1
April	169.8	158.9	179.1	112.2	107.5	118.5	165.4	163.6	186.6	242.0	211.4	247.0
May	174.4	161.6	196.3	114.3	111.7	123.1	165.6	161.0	195.5	243.7	214.6	255.8
June	169.7	160.0	190.1	115.9	113.6	128.6	165.6	160.1	193.5	238.1	215.9	268.5
July	165.7	164.5	180.3	114.7	114.8	130.0	162.2	162.0	191.1	235.1	223.8	274.3
August	162.5	168.6	182.5	112.6	112.3	131.5	161.8	168.3	196.4	225.4	207.8	279.4
September	164.1	177.4	181.8	106.8	115.7	125.0	162.0	171.5	209.6	220.1	213.3	277.0
October	164.7	178.8	178.0	102.1	114.1	117.0	160.5	175.0	202.1	204.8	215.9	265.7
November	170.3	181.3	176.7	95.9	106.1	118.0	162.5	174.1	190.0	210.8	215.0	270.5
December	171.2	179.1	173.1	97.1	106.7	124.2	164.6	175.1	196.2	221.5	238.6	270.4
YEAR	166.8	168.9	182.5	106.3	110.4	122.1	163.3	167.6	193.9	231.1	218.2	256.5

TABLE 41B **St. Boniface Stockyards Prices**
— Selected Grades —

Month	A1,2 Steers			D1,2 Cows			Feeder Steers 800-900 pounds			Good Veal Calves		
	5 Yr. 1986 1987			5 Yr. 1986 1987			5 Yr. 1986 1987			5 Yr. 1986 1987		
January	73.98	76.57	79.10	44.29	45.22	51.32	71.44	74.17	81.59	103.83	96.66	103.16
February	73.67	73.85	77.73	47.58	49.87	53.02	72.97	74.45	82.45	102.16	97.09	103.54
March	74.27	72.42	78.19	50.55	51.06	54.26	72.06	74.73	82.79	109.98	98.40	105.29
April	77.00	72.09	81.25	50.89	48.76	53.76	75.01	74.20	84.62	109.79	95.91	112.03
May	79.12	73.28	89.02	51.85	50.68	55.85	75.11	73.02	88.66	110.56	97.35	116.02
June	76.97	72.60	86.21	52.59	51.54	58.34	75.11	72.63	87.76	108.00	97.93	121.78
July	75.17	74.63	81.79	52.02	52.08	58.97	73.56	73.48	86.68	106.65	101.53	124.44
August	73.69	76.49	82.80	51.08	50.94	59.64	73.41	76.32	89.10	102.24	94.27	126.72
September	74.42	80.47	82.47	48.45	52.49	56.72	73.47	77.79	95.09	99.84	96.76	125.63
October	74.73	81.11	80.75	46.30	51.75	53.06	72.81	79.40	91.68	92.91	97.93	120.54
November	77.25	82.26	80.15	43.50	48.11	53.50	73.73	78.98	86.18	95.60	97.54	122.71
December	77.66	81.23	78.51	44.06	48.39	56.34	74.66	79.43	89.00	100.46	108.21	122.66
YEAR	75.66	76.62	82.80	48.20	50.07	55.39	74.08	76.03	87.94	104.82	98.96	116.36

SOURCE: Agriculture Canada.

HOGS

Production

In 1987, Manitoba farmers produced 1,913,300 hogs, an increase of 6.0 per cent from 1986. An increase in the average value per head together with the improvement in production volume resulted in a \$9.5 million increase in total value of production over the 1986 value. Hogs produced in Manitoba were valued at an estimated \$264 million in 1987.

Marketings

Manitoba producers marketed 84,800 more hogs for slaughter in Canada in 1987 than in 1986. Hog marketings in all months, other than April, June and December, exceeded corresponding levels in 1986. The largest monthly increase in marketings, 15.1 per cent, occurred in November, 1987.

TABLE 42

Hog Marketings by Month

Month	— Animals from Manitoba —		
	1985	1986	1987
January	105,053	121,671	134,616
February	104,594	118,693	130,239
March	137,177	147,937	168,889
April	111,244	125,793	124,692
May	114,028	120,002	125,839
June	157,699	144,168	142,765
July	110,393	110,956	118,233
August	116,711	112,806	115,471
September	150,698	144,010	154,789
October	121,280	116,830	131,191
November	119,798	122,768	141,331
December	144,024	169,668	152,046
YEAR	1,492,999	1,555,302	1,640,101

SOURCE: Agriculture Canada.

Inventory

The total number of hogs on Manitoba farms on June 3, 1986 was 1,071,195 head, an increase of 22.4 per cent from the same period in 1981. Market hogs totalled 955,024, an increase of 23.4 per cent or 180,900 head from 1981. Sow numbers on farms, at 109,400 head in 1986 were 15.6 per cent above the 1981 level.

TABLE 43

Hog Numbers on Farms, June 3, 1986

Crop District	Under 20 kg (45 lb)	20 to 60 kg (45-130 lb)	Over 60 kg (130 lb)	Breeding Stock	Total
1	13,471	15,886	12,249	4,666	46,272
2	22,305	22,708	23,746	8,871	77,630
3	16,470	16,629	13,818	6,162	53,079
4	1,650	1,097	624	611	3,982
5	6,449	6,497	6,153	2,554	21,653
6	6,408	6,431	4,447	2,677	19,963
7	51,365	52,313	50,275	19,343	173,296
8	77,315	78,855	70,148	27,628	253,946
9	77,897	82,154	80,010	27,555	267,616
10	7,377	10,530	8,807	2,794	29,508
11	25,534	30,113	27,827	9,799	93,273
12	9,815	8,799	8,852	3,511	30,977
PROVINCE	316,056	332,012	306,956	116,171	1,071,195

SOURCE: Statistics Canada.

Quality

The general quality of Manitoba hogs increased in 1987 relative to 1986. The percentage of market hogs indexing 100 or better increased to 84.2 per cent from 82.3 per cent in 1986.

Prices

The substantial improvement in the price of Index 100 hogs late in the second quarter and early in the third quarter, 1987 was followed by significantly lower prices in the fourth quarter. The highest average price received for Index 100 hogs was 203.3 cents per kilogram (\$92.21 per hundredweight) in July. The average annual price of Index 100 hogs in 1987 was 172.38 cents per kilogram (\$78.16 per hundredweight), down 3.6 per cent from 1986 and 6.6 per cent above the five-year average (1982-1986).

**TABLE 44A Manitoba Monthly Average Weighted Hog Prices,
1985 - 1987**

— cents per kilogram —

Month	Index 100			Sows		
	1985	1986	1987	1985	1986	1987
January	153.9	149.7	168.0	119.1	90.7	106.4
February	157.9	153.3	170.9	119.2	96.2	109.7
March	149.8	143.6	157.7	118.6	91.6	107.5
April	130.8	139.5	160.5	98.5	88.6	105.3
May	133.4	152.8	184.6	104.1	93.2	131.0
June	143.2	171.8	199.7	97.3	103.2	114.1
July	150.9	203.5	203.3	93.2	126.6	133.9
August	139.2	217.7	200.2	90.4	143.2	127.9
September	141.7	217.5	184.9	84.9	155.6	123.2
October	150.0	199.9	166.4	87.8	136.9	110.5
November	147.4	204.4	139.9	92.5	137.8	87.6
December	154.3	190.5	140.9	93.2	127.6	109.5
YEAR	146.1	178.8	172.3	98.3	116.8	116.9

SOURCE: Agriculture Canada.

**TABLE 44B Manitoba Monthly Average Weighted Hog Prices,
1985 - 1987**

— dollars per 100 pounds —

Month	Index 100			Sows		
	1985	1986	1987	1985	1986	1987
January	69.79	67.91	76.20	54.01	41.14	48.26
February	71.64	69.55	77.52	54.06	43.64	49.76
March	67.94	65.16	71.53	53.79	41.55	48.76
April	59.31	63.28	72.80	44.67	40.19	47.76
May	60.52	69.31	83.73	47.22	42.28	59.42
June	64.97	77.93	90.58	44.14	46.81	51.76
July	68.44	92.31	92.21	42.27	57.43	60.74
August	63.13	98.75	90.81	40.99	64.96	58.02
September	64.26	98.66	83.87	38.50	70.58	55.88
October	68.02	90.68	75.48	39.82	62.10	50.12
November	66.87	92.72	63.46	41.96	62.51	39.74
December	70.01	86.41	63.91	42.26	57.88	49.67
YEAR	66.25	81.10	78.16	44.59	52.98	53.03

SOURCE: Agriculture Canada.

SHEEP AND LAMBS

Marketing

Balance sheet estimates indicated that 20,700 sheep and lambs were marketed in Manitoba in 1987. Of these, 4,116 were slaughtered in provincial institutions, about 3,000 were marketed inter-provincially and 9,400 were exported to the United States. Sales of sheep and lambs were valued at \$1.78 million. The recorded slaughterings of sheep and lambs of Manitoba origin fell to 4,116 head in 1987, a decline of 21.6 per cent from 1986.

TABLE 45 Recorded Sheep and Lamb Marketings from Manitoba

Month	1984	1985	1986	1987
January	981	751	416	295
February	663	606	298	260
March	568	867	561	306
April	1,167	654	353	346
May	702	587	457	277
June	1,411	1,140	635	397
July	1,282	1,005	382	290
August	1,020	1,156	376	357
September	1,486	1,629	427	425
October	1,656	1,374	435	330
November	1,065	831	350	358
December	1,394	1,031	563	475
YEAR	13,395	11,631	5,253	4,116

SOURCE: Agriculture Canada.

Prices

Prices in 1987 for all grades of animals averaged \$1.74 per kilogram (\$79.04 per hundredweight), up by 21.2 per cent from 1986. The average price for A and B lambs, 36 kilograms (80 pounds) and over, was \$1.92 per kilogram (\$87.09 per hundredweight). The previous five-year average was \$1.50 per kilogram (\$68.13 per hundredweight).

Wool Production

The total farm value of shorn wool production in 1987 was estimated at \$48,000, an increase of 17.5 per cent above the revised 1986 value of \$40,854. The average price received by producers was approximately \$1.30 per kilogram (59 cents per pound). Production was 36 916 kilograms (81,399 pounds), a decrease of 4.4 per cent below the revised 1986 production.

DAIRY

Farm sales of milk in 1987 were estimated at 306 639 kilolitres, an increase of 5.3 per cent from 1986. Cash receipts for all milk sold off the farm totalled \$121,317,000, up 3.3 per cent from 1986. Supplementary payments increased by 4.2 per cent above the 1986 level of \$10,628,000.

The volume of milk sold for fluid purposes was 116 509 kilolitres in 1987, 2.2 per cent higher than in 1986. This represented 38.0 per cent of all sales in 1987, a decrease of 1.1 per cent below 1986. Fluid sales generated 46.6 per cent of total milk and cream cash receipts sold off the farm in 1987 compared to the 48.1 per cent contribution in 1986.

By comparison, the volume of milk and cream sold off the farm for industrial use amounted to 190 130 kilolitres 1987, representing 62.0 per cent of total sales compared to the 1986 figure of 60.9 per cent. In 1987, off-farm sales for industrial use contributed \$53.8 million to milk and cream receipts, (44.3 per cent) compared to 42.8 per cent contribution in 1986.

TABLE 46 Volume of Milk and Cream Sold Off Farm

	Sold for Fluid	Sold for Industrial Use		Total Volume of Sales
		Delivered as Milk	Delivered as Cream	
		kilolitres		
1983	108 168	150 659	33 328	292 155
1984	109 197	156 778	31 338	297 313
1985	110 811	147 466	31 514	289 791
1986	114 028	147 843	29 446	291 317
1987	116 509	157 318	32 812	306 639

SOURCE: Statistics Canada, Cat. No. 23-001.

TABLE 47 **Cash Receipts from Milk and Cream Sold Off Farm**

	Sold for Fluid Uses	Sold for Industrial Uses Delivered As Milk	Delivered As Cream — thousands of dollars	Total Farm Sales — thousands of dollars	Supplementary Payments	Total Cash Receipts
1983	46,934	46,131	4,733	97,798	10,936	108,734
1984	51,565	48,833	4,528	104,926	11,246	116,172
1985	54,817	42,894	4,659	102,370	10,935	113,305
1986	56,474	45,891	4,417	106,782	10,628	117,410
1987	56,477	48,775	4,994	110,246	11,071	121,317

SOURCE: Statistics Canada, Cat. No. 23-001.

Creamery Butter Production

In 1987 butter production was 4 150 tonnes, an increase of 7.5 per cent over the 1986 value of 3 859 tonnes. The monthly average production was 345.8 tonnes in 1987 compared with 321.6 tonnes in 1986.

Cheddar Cheese Production

Cheddar cheese production in 1987 was 6 339 tonnes, up 8.2 per cent above the 1986 level of 5 859 tonnes. The ice-cream mix totalled 8 583 tonnes, slightly down from the 8 638 tonnes produced in 1986 and represents approximately one-half the actual ice-cream volume; two parts of ice-cream are made from one part of mix.

TABLE 48 **Dairy Factory Production by Month, 1987**

Month	Creamery Butter (tonnes)	Cheddar Cheese (tonnes)	Ice-Cream Mix (kilolitres)
January	331	564	431
February	321	540	502
March	353	497	720
April	360	557	682
May	359	564	818
June	363	547	906
July	369	564	998
August	335	532	760
September	320	440	751
October	355	478	1 074
November	332	503	532
December	352	553	409
YEAR	4 150	6 339	8 583

SOURCE: Statistics Canada.

Total Milk Supply

Total milk production in the 1987 dairy year (August 1, 1986 to July 31, 1987) was 297.93 million litres, up 2.5 per cent from 1986 level of 290.66 million litres. The milk production was 294.09 million litres in 1986.

The 1987 (dairy year) producer price for class 1 milk was \$51.90 per hectolitre (\$22.86 per hundredweight), down \$1.10 per hectolitre (0.41 per hundredweight) from the price received in 1986.

Milk Cows

The number of milk cows on Manitoba farms as of June 3, 1986 was 65,000 head, a 21.9 per cent decline from the 1981 Census. Dairy replacement heifers on farms totalled 29,200, a 9.6 per cent decline from 1981.

POULTRY

The value of poultry, egg and meat production was estimated at \$114,805 million in 1987. This was 2.6 per cent higher than the revised 1986 value of \$111,869 million. Although the number of eggs sold for consumption was essentially the same as the 1986 level, the dollar value increased by 2.6 per cent over 1986. Chicken meat production accounted for 18,619,000 birds in 1987, a 4.9 per cent increase over 1986. The dollar value of chicken meat production reached \$33,940,000 in 1987, compared with the 1986 value of \$33,697,000.

TABLE 49 **Summary of Poultry Production**

	— 1986 —			— 1987 —		
	Dozen (000)	Price (\$/doz)	Value (\$000)	Dozen (000)	Price (\$/doz)	Value (\$000)
EGGS						
Sold for consumption	50,183	85.4	42,856	50,867	81.7	41,558
Used on farms	693	85.4	592	674	81.7	551
Hatching (chicks)	2,195	224.0	4,917	2,499	251.0	6,272
	53,071		48,365	54,040		48,381
Hatching (turkeys)	353	701.0	2,475	413	725.0	2,994
TOTAL EGG VALUE	53,424		50,840			51,375
MEAT	Birds	Price	Value	Birds	Price	Value
	(000)	(\$ each)	(\$00)	(000)	(\$ each)	(\$000)
Chicken:						
Broilers	13,753	1.83	25,168	14,452	1.77	25,580
Roasters	1,958	3.98	7,793	2,073	3.80	7,877
Fowl	2,045	0.36	736	2,194	0.22	483
	17,756		33,697	18,619		33,940
Turkeys:						
Broilers	354	6.70	2,372	390	7.12	2,777
Heavies	964	13.51	13,024	987	14.23	14,045
	1,318		15,396	1,377		16,822
Geese	254	9.87	2,499	341	9.55	3,257
Ducks	314	5.00	1,570	93	5.00	465
TOTAL MEAT VALUE	2,320	3.55	53,162			54,484
			8,236	2,451	3.65	8,946
Started Pullets						
TOTAL POULTRY PRODUCTION			112,238			114,805

SOURCE: Statistics Canada, Cat. No. 23-203 and 23-003; Manitoba Agriculture.

In 1987, the average product price for ungraded delivered eggs was 81.7 cents per dozen, 4.3 per cent below the average price of 85.4 cents per dozen last year. The monthly average delivered prices for all grades for 1982-1987 are shown below.

TABLE 50 Egg Prices to Producers, Winnipeg, 1982 - 1987

Month	ALL GRADES — cents per dozen delivered, ungraded —					
	1982	1983	1984	1985	1986	1987
January	83.2	80.5	89.8	88.3	84.7	83.6
February	83.4	81.0	91.6	89.5	86.9	83.5
March	83.1	81.3	92.1	89.7	87.7	82.9
April	80.9	81.5	88.7	87.4	86.2	80.8
May	80.4	82.4	88.6	86.6	84.2	79.1
June	81.5	82.3	88.5	87.5	84.9	81.1
July	82.9	81.9	91.2	87.8	85.6	82.4
August	84.8	81.0	90.9	87.3	88.7	81.6
September	84.6	82.5	89.8	86.5	82.3	80.9
October	83.7	86.7	91.3	86.4	86.0	81.6
November	81.6	87.9	90.1	86.1	84.9	82.6
December	80.4	89.7	88.4	85.3	81.3	80.5
YEAR	82.5	83.3	90.1	87.4	85.4	81.7

SOURCE: Canadian Egg Marketing Agency.

The average number of laying hens per month on Manitoba farms was 2,540,000 in 1987 and 2,535,000 in 1986. The average production per bird at year-end was at a rate of 258 eggs per bird per year in 1987 compared with 253 in 1986.

The egg quota allocation to Manitoba by the Canadian Egg Marketing Agency was 2,324,778 layers in 1987. The monthly inventory of layers compared with the allocation is shown below.

TABLE 51 Manitoba Egg Quota Allocation and Inventory, 1987

Month	LAYER NUMBERS	
	Allocation	Inventory
January	2,324,778	2,214,520
February	2,324,778	2,226,433
March	2,324,778	2,195,791
April	2,324,778	2,227,112
May	2,324,778	2,242,680
June	2,324,778	2,242,164
July	2,324,778	2,211,877
August	2,324,778	2,219,961
September	2,324,778	2,216,022
October	2,324,778	2,219,110
November	2,324,778	2,234,664
December	2,324,778	2,253,007

SOURCE: Canadian Egg Marketing Agency.

OTHER LIVESTOCK

HORSES

The 1986 Census of Agriculture indicated 5,540 farms reported 40,691 horses and ponies. This figure represents an increase of 30 per cent over the 1981 Census figure of 31,284. It was estimated that 182 farms supplied pregnant mare's urine from 11,240 mares for a gross value of \$12,259,800. The latter represents a decrease of 10.1 per cent in number of mares below 1986 and a corresponding 5.1 per cent decline in value.

GOATS

The 1986 Census of Agriculture reported a total of 3,663 goats from 597 farms.

RABBITS

The 1986 Census of Agriculture reported a total of 643 rabbit farms with a rabbit population of 8,156.

OTHER PRODUCTS

FUR

Pelts are obtained from fur farms and wildlife sources. In the 1986/87 season, pelts from fur farms numbered 59,998, made up of 926 from foxes and 55,072 from mink. Fur farm pelts were valued at \$2,487,527 with 96 per cent accounted for by mink pelts. The bulk of this increase was due to a 47.3 per cent rise in the value of mink pelts in 1986/87 even though the number of mink pelts was up by only 1.6 per cent.

Wildlife pelts totalled 353,791 in 1986/87, an increase of 53.8 per cent over 1985/86. The value of wildlife pelts in 1986/87 was estimated at \$8,070,118 compared with that of \$5,061,210 in 1985/86, an increase of 59.5 per cent. The total number of pelts from both farms and wildlife marketed in Manitoba in 1986/87 was 409,789, 40.5 per cent less than in 1985/86. The total value of all fur pelts in 1985/86 was \$6,867,290, a fall of 1.2 per cent from 1984/85. Table 52 shows fur statistics for 1984/85 to 1986/87.

TABLE 52 Fur Statistics, 1984/85 to 1986/87¹

Fur Farms	1984/85	1985/86	1986/87
Fox:			
Pelts	1,200	1,522	926
Value	186,060	189,885	107,212
Number of Farms	16(M) 2(S)	16(M) 2(S)	16(M) 2(S)
Mink:			
Pelts	59,425	60,082	55,072
Value	1,980,389	1,616,195	2,380,315
Number of Farms	28(M) 3(S)	27(M) 2(S)	27(M) 2(S)
TOTAL PELTS	60,625	61,604	55,998
TOTAL VALUE	2,166,449	1,806,080	2,487,527
Wildlife			
Pelts	298,537	230,051	353,791
Value	4,784,524	5,061,210	8,070,118
TOTAL FURS			
Pelts	359,162	291,655	409,789
Value	6,950,973	6,867,290	10,557,645

¹ Manitoba fur farm statistics for 1984 and 1985 include Saskatchewan figures (due to confidentiality requirements)

(M) Manitoba. (S) Saskatchewan.

SOURCE: Statistics Canada; Cat. No. 23-207.

FOREST PRODUCTS

The value of production was estimated at \$1,491,000 in 1987, up 1.4 per cent from the revised value of \$1,471,000 in 1986. This was based on total commercial sales and included plywood and fence posts. The 1986 Census reported 124 217 hectares (306,948 acres) of woodlands compared to 284 184 hectares (613,277 acres) reported in the 1981 Census of Manitoba.

HONEY AND ALFALFA LEAFCUTTER BEES

Following the relatively mild winter of 1986-87 most beekeepers reported good wintering success. Spring conditions were generally excellent for the build-up of package bees and wintered colonies. Due to early flow conditions supplemental feed requirements were less than usual.

Conditions during July, the main nectar flow period, were variable but most regions did experience a one to two week period of wet inclement weather conditions that prevented the production of a bumper crop. Some beekeepers also reported reduced production as a result of hot and dry conditions that persisted during late spring and early summer.

The price decline that began in 1986 continued with the 1987 honey crop and many beekeepers were forced to sell their honey at less than 40¢/pound (88¢/kg).

TABLE 53 Honey Prices and Production, Manitoba, 1986, 1987

	1986	1987
Number of Beekeepers	1,300	1,300
Number of Colonies	110,000	109,000
Honey:		
Average kg/hive	73	73
Average lb/hive	160	160
Total Production — kg	7 983 000	7 957 000
Total Production — lb	17,600,000	17,440,000
Price/kg — €	110	88
Price/lb — €	50	40
TOTAL VALUE	\$8,800,000	\$6,976,000
Beeswax:		
Production — kg	119 745	119 355
Production — lb	264,000	261,600
Price/kg — €	275	275
Price/lb — €	125	125
TOTAL VALUE	\$330,000	\$327,000
TOTAL VALUE HONEY AND BEESWAX	\$9,130,000	\$7,303,000

SOURCE: Manitoba Agriculture.

Alfalfa Leafcutter Bees

Alfalfa leafcutter bees are used in the pollination of alfalfa for seed production. Weather conditions across the province were generally good during the latter part of July and August, resulting in an above average bee reproduction and an above average alfalfa seed crop.

TABLE 54 Production of Leafcutter Bees

	1986	1987
Number of Leafcutter Beekeepers	140	168
Number of Leafcutter Bees	185,000,000	260,000,000
Price of Leafcutter Bees (per bee)	\$0.008	\$0.01
TOTAL VALUE	\$1,480,000	\$2,600,000
Pedigreed Alfalfa Seed — ha	5 366	6 273
Pedigreed Alfalfa Seed — lb	13,260	15,500
Alfalfa Seed Production — kg	950 000	1 700 000
Alfalfa Seed Production — lb	2,094,000	3,747,800
Price/kg	\$2.65	\$2.53
Price/lb	\$1.20	\$1.15
TOTAL VALUE	\$2,517,000	\$4,301,000
TOTAL VALUE OF BEES AND SEED	\$3,997,000	\$6,901,000

SOURCE: Manitoba Agriculture.

RESOURCES

LAND AND FARMS

TABLE 55A Land Use by Area in Hectares, Manitoba, 1986

Crop District		— Improved Land —				— Unimproved Land —				TOTAL LAND
Crops	Fallow	Pasture	Other	Total	Pasture	Woodland	Other			
— hectares —										
1	524	40	22	8	594	114	3	29	740	
2	524	54	32	10	620	179	7	51	857	
3	464	89	28	10	591	155	14	80	840	
4	186	56	22	5	269	78	9	37	393	
5	190	31	15	4	240	59	8	31	338	
6	351	55	37	9	452	331	21	61	865	
7	661	35	33	13	742	129	12	32	915	
8	768	20	16	11	815	79	8	29	931	
9	338	31	12	9	390	55	8	15	468	
10	72	14	8	3	97	42	10	21	170	
11	215	33	13	6	267	68	5	10	350	
12	225	52	38	11	326	425	20	103	874	
PROVINCE	4 518	510	275	99	5 403	1 714	125	499	7 741	

TABLE 55B Land Use by Area in Acres, Manitoba, 1986

Crop District		— Improved Land —				— Unimproved Land —				TOTAL LAND
Crops		Fallow	Pasture	Other	Total	Pasture	Woodland	Other		
— thousand acres —										
1	1,295	98	55	20	1,468	283	8	72	1,831	
2	1,295	133	78	25	1,531	442	17	126	2,116	
3	1,146	219	68	24	1,457	382	33	196	2,068	
4	461	138	54	12	665	193	22	91	971	
5	468	76	37	10	591	147	21	78	837	
6	868	137	92	23	1,120	818	52	152	2,142	
7	1,635	87	81	32	1,835	319	28	79	2,261	
8	1,898	49	39	27	2,013	196	19	72	2,300	
9	835	76	30	23	964	136	20	37	1,157	
10	179	34	20	7	240	103	25	51	419	
11	531	81	31	15	658	168	13	26	865	
12	556	129	93	27	805	1,050	49	254	2,158	
PROVINCE	11,167	1,258	678	245	13,347	4,237	307	1,234	19,125	

SOURCE: Statistics Canada, Census 1986.

TABLE 56 Summerfallow Area, 1985-1987

Crop District	— 000 hectares —			— 000 acres —		
	1985	1986	1987	1985	1986	1987
1	38	40	48	93	98	119
2	64	53	53	159	132	132
3	84	88	96	209	218	236
4	48	55	58	119	137	143
5	23	31	42	56	76	105
6	48	55	50	118	136	124
7	17	35	47	42	87	115
8	17	20	27	41	48	69
9	15	31	29	38	76	71
10	8	14	15	19	34	36
11	17	32	22	41	80	54
12	26	52	39	65	128	96
PROVINCE	405	506	526	1,000	1,250	1,300

SOURCE: Statistics Canada.

FARM NUMBER, SIZE, TYPES

The 1986 Census, taken on June 3rd, defines a farm as a farm, ranch or other agricultural holding with sales of agricultural products during the past 12 months of \$250 or more.

In 1986, the total amount of all farms in Manitoba numbered 27,336, a 7.2 per cent decline from 1981. Each farm averaged 283 hectares (700 acres). Details about farm size, numbers and product sales for Manitoba in 1986 are listed below.

TABLE 57 **Size and Number of Farms by Area, 1986**

Crop District	Census Farms (sales ≥ \$250)			Number of Census Farms (with sales ≥ \$2,500) % of All		Number of Census Farms (with sales ≥ \$10,000) % of All	
	Number	Hectares	Acres	Number	Farms	Number	Farms
1	1,952	380	938	1,901	97	1,771	91
2	2,576	332	822	2,437	95	2,188	85
3	2,630	318	787	2,505	95	2,214	84
4	1,288	305	754	1,207	94	996	77
5	1,214	279	690	1,132	93	934	77
6	2,506	346	855	2,327	93	1,877	75
7	3,076	297	735	2,903	94	2,594	84
8	3,982	234	577	3,830	96	3,531	89
9	3,024	155	383	2,638	87	2,112	70
10	886	191	473	735	83	486	55
11	1,860	188	465	1,578	85	1,173	63
12	2,342	373	922	2,069	88	1,553	66
PROVINCE	27,336	283	700	25,262	92	21,429	78

SOURCE: Statistics Canada.

TABLE 58 **Farm Types By Area of Land and Number of Animals, 1986**

Crop District	Percent of Farms With					— LIVESTOCK —			
	Wheat	— CROPS —		Flax	Canola (Rapeseed)	Cattle	Hogs	Sheep	Poultry
1	98	25	51	29	28	54	9	1	17
2	69	32	53	22	23	55	11	2	18
3	80	26	62	20	31	54	12	1	22
4	76	34	50	9	34	64	9	2	26
5	77	30	46	31	27	43	13	2	21
6	64	33	36	15	30	60	11	2	23
7	70	27	43	41	31	46	12	2	16
8	79	14	47	54	30	42	20	1	15
9	50	16	30	23	8	42	17	2	20
10	37	23	21	16	11	52	11	3	20
11	54	17	27	18	12	41	11	2	15
12	30	19	28	11	16	66	10	2	21
PROVINCE	65	24	43	27	24	51	13	2	19

SOURCE: Statistics Canada.

TENURE

TABLE 59 Farms Classified by Tenure of Operator — 1986 Census

	No. of Operators	Total Hectares	Total Acres
Owner	25,091	4 871 428	12,037,564
Renters/Leasees	13,552	2 868 798	7,088,953
From Government	3,075	929 248	2,296,218
From Other Sources	11,729	1 939 550	4,792,735
TOTAL		7 740 226	19,126,517

SOURCE: Statistics Canada.

PEOPLE

Population

Manitoba's farm population continues to decline with the consolidation of farms. In 1986 there were 86,505 people on Census farms. Of the 27,336 farm operators, 10.6 per cent did not live on the farms they operated, 1.3 per cent lived on their farms four months or less, 1.9 per cent lived there five to eight months and 86.2 per cent lived on their farms nine to twelve months. About 44.4 per cent of the operators were between 35 and 54 years of age, 22.2 per cent under 35 years, 21.6 per cent between 55 and 64, and 11.8 per cent over 65 years of age.

Census Farm Labour

The 1986 Census of Agriculture revealed that 9,714 farms reported 1,536,485 days of total off-farm work by farm operators in 1985. Of this, 2,179 farms reported 235,001 days of agricultural work and 8,102 farms reported 1,301,484 days of non-agricultural work.

Hired Agricultural Labour. The 1986 Census of Agriculture also reported that 12,140 farms hired paid labour for 342,706 weeks. This included the hiring of 167,867 weeks of year-round labour by 2,617 farms and 174,838 weeks of seasonal labour by 10,798 farms.

FARM WAGES

In 1987, hired farm labour index experienced a 1.8 per cent increase over 1986 and 4.6 per cent over 1985. The hourly rated index reflected, on average, a 2.4 per cent increase over 1986 while the monthly rated index rose by an average of 1.9 per cent over last year. Total wages paid amounted to \$93.0 million in 1987 with 98 per cent paid out as cash wages. This represents only a 1.4 per cent increase over the 1986 total wage cost of \$91.7 million.

TABLE 60 Average Annual Wages of Farm Labour in Manitoba, 1985 - 1987

	Per Hour			Per Day			Per Month		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
With Board	4.98	5.04	N.A.	43.57	45.44	N.A.	841.00	889.00	N.A.
Without Board	5.79	6.01	N.A.	54.20	56.21	N.A.	1,010.75	1,069.25	N.A.

SOURCE: Statistics Canada.

LAND VALUES

Capital Investment

The average capital investment in land and buildings was \$240,864 per farm, based on the 1986 Census. This value has decreased substantially since 1981, reflecting trends towards lower land values. Since 1981, capital investment in land and buildings has declined as land values have fallen. In 1986 the total value of capital invested in land and buildings was estimated at \$6,584,281,000, down 7 per cent from the total in 1985. On a per farm basis, the average investment in land and buildings in 1987 was \$224,005, down 7.0 per cent from the 1986 level. The estimated transaction prices per hectare (acre) of farmland by crop district is listed in Table 61.

TABLE 61 Average Transaction Prices of Farmlands, 1985-1987
(Buildings Included)

Crop District	Dollars per Hectare			Dollars per Acre		
	1985	1986	1987	1985	1986	1987
1	781	660	551	316	267	223
2	768	680	761	311	275	308
3	645	603	514	261	244	208
4	640	717	524	259	290	212
5	778	704	628	315	285	254
6	472	519	474	191	210	192
7	1,169	862	909	473	349	368
8	1,334	1,285	1,226	540	520	496
9	1,871	1,764	1,690	757	714	684
10	657	640	840	266	259	340
11	1,448	1,648	1,631	586	667	660
12	395	460	413	160	186	167
Winnipeg Area						
Winnipeg	0	0	1,670	0	0	676
Assiniboia	9,555	1,502	0	3,867	608	0
Charleswood	1,480	3,057	10,005	599	1,237	4,049
Fort Garry	2,315	3,677	6,706	937	1,488	2,714
St. Vital	3,773	2,100	18,251	1,527	850	7,386
N. Kildonan	0	0	15,145	0	0	6,129
Old Kildonan	12,718	0	26,633	5,147	0	10,778
Transcona	0	536	8,236	0	217	3,333
Other						
LGD Consol						
The Pas	0	818	885	0	331	358
Unorganized	0	628	217	0	254	88
Unknown Code	0	0	0	0	0	0
PROVINCE	929	867	853	376	351	345

SOURCE: Manitoba Farm Lands Ownership Board.

CAPITAL

Investment in Agriculture

In 1986, the revised average investment per Manitoba farm reporting in the 1986 Census amounted to \$349,100, a decrease of 1.8 per cent below 1981. Land and buildings accounted for 70.0 per cent, machinery for 23.4 per cent and livestock for 7.6 per cent (respectively) of the total capital investment. Total provincial investment in agriculture was \$9,543,007,000 in 1986, 8.8 per cent below 1981. Capital investment per farm reporting by area is listed below (based on pre-revised 1986 Census data).

In 1987, total investment in agriculture amounted to \$9,175,292,000, 3.9 per cent less than the revised Census 1986 value of \$9,543,007,000.

TABLE 62 Capital Investment Per Farm Reporting By Area, 1986

Crop District	Land and Buildings	Machinery and Equipment — dollars per farm —	Livestock	Total
1	288,730	113,681	43,904	428,674
2	251,804	91,322	45,647	370,326
3	208,587	83,874	35,424	313,334
4	179,993	70,664	35,847	274,452
5	194,133	71,921	30,005	282,876
6	154,967	64,321	43,354	247,847
7	320,091	103,213	50,491	449,689
8	331,555	107,827	36,039	457,056
9	261,951	72,432	46,632	362,076
10	137,384	44,453	35,212	204,766
11	232,534	69,986	42,255	325,221
12	135,084	54,313	55,217	229,420
PROVINCE	240,864	83,380	42,860	349,525

SOURCE: Statistics Canada.

TABLE 63 Value of Farm Capital, By Province, 1983 - 1987

	— thousand dollars —				
	1983	1984	1985	1986	1987
CANADA	127,028,779	122,819,377	115,163,824	109,568,682	104,266,724
Manitoba	10,136,296	9,971,942	9,694,791	9,543,007	9,175,292
British Columbia	7,823,576	7,470,804	6,971,420	6,484,271	5,978,719
Alberta	34,868,231	32,554,089	30,496,308	28,585,934	27,664,368
Saskatchewan	33,580,332	33,060,552	30,558,911	29,231,398	25,964,149
Ontario	28,347,556	27,507,166	25,530,141	23,709,300	23,166,232
Quebec	9,815,980	9,759,245	9,357,844	9,453,774	9,750,456
New Brunswick	697,256	728,910	754,648	755,841	754,011
Nova Scotia	938,108	939,537	948,568	961,828	975,371
Prince Edward Island	712,520	719,737	743,890	736,770	730,802
Newfoundland	108,924	107,395	107,303	106,559	107,324

SOURCE: Statistics Canada.

MACHINERY

The number of farm trucks licensed for operation in Manitoba in 1987 was 66,097, a decrease of 1.4 per cent below the 1986 total of 67,024.

TABLE 64 Farm Machinery Numbers and Sales

	Number on Manitoba Farms	Sales During		
	1986 Census	1985	1986	1987
Tractors	73,945	1,641	1,378	1,005
Trucks	57,502			
Combines:	21,946			
self-propelled	14,082	542	452	199
pull-type	6,328	267	139	46
Balers:	15,317			
hand portable bales	9,860	91	126	80
large round bales	5,457	328	403	384
Swathers and Windrowers	24,528	867	430	570
self-propelled	14,082			
pull-type	10,446			
Mower Conditioners	5,080			
Forage Crop Harvesters	978			
Grain Dryers	3,381			
Potato Harvesters	343			
All Other Farm Machinery	21,724			

SOURCE: Statistics Canada; Canadian Farm and Industrial Equipment Institute.

FERTILIZER

The volume of sales excluding mixed fertilizers, decreased from 666 700 tonnes (735,000 tons) in 1986 to 616 100 tonnes (679,300 tons) in 1987.

TABLE 65 Sales in Manitoba, July 1 to June 30, 1985 to 1987^R

Formulation Types:	Tonnes Sold			Tons Sold		
	1985	1986	1987	1985	1986	1987
Ammonium Phosphate	218.1	214.5	196.2	240.5	236.5	216.3
Ammonium Nitrate	79.4	70.6	49.2	87.5	77.8	54.2
Urea	172.4	168.7	142.5	190.1	186.0	157.1
Anhydrous Ammonia	106.7	109.1	119.3	117.6	120.3	131.5
Nitrogen Solutions	58.1	66.6	52.6	64.1	73.4	58.0
Ammonium Sulphate	10.6	11.0	12.0	11.7	12.1	13.2
Potassium Chloride	23.6	25.4	26.6	26.0	28.0	29.3
Other Fertilizer Materials ¹	5.4	0.9	0.8	6.0	1.0	0.9
TOTAL FERTILIZER SALES	674.5	666.7	616.1	743.6	735.0	679.3

¹ Includes other nitrogen, other phosphates and other fertilizers.

R Revised.

SOURCE: Statistics Canada; Western Canada Fertilizer Association.

HERBICIDES

In 1987, 3.56 million kilograms (7.85 million pounds) of active ingredients of herbicides were used for agricultural purposes in Manitoba. This represented a decrease of 23 per cent below the total usage of 1986. Use of 2,4-D decreased by 17 per cent, TCA increased by 9 per cent and MCPA decreased by 3 per cent. The use of other chemicals declined by 43 per cent from 1986, while Bromoxynil-Dicamba increased by 26 per cent. Wild oat herbicides however were reduced by 44 per cent below its 1986 usage.

The area treated for wild oats in 1987 fell by 41 per cent below 1986 to 1 603 065 hectares (3,961,266 acres) in 1987 from 2 737 679 hectares (6,764,963 acres) in 1986.

TABLE 66

Herbicides Used for Agricultural Purposes in Manitoba

	1985 ^R	1986	1987
	'000 kilograms of active ingredients		
2,4-D	507	645	536
Ester	101	151	118
Amine	406	494	418
TCA	62	89	97
MCPA	431	479	466
Ester	36	46	64
Amine	347	380	338
Na +, K +, Salt	48	53	63
OTHER CHEMICALS	781	745	423
BROMOXYNIL & DICAMBA	464	690	870
WILD OAT HERBICIDES	1 543	2 085	1 168
TOTAL	3 788	4 733	3 560
	'000 pounds of active ingredients		
2,4-D	1,118	1,422	1,181
Ester	223	333	260
Amine	895	1,089	921
TCA	137	196	213
MCPA	950	1,056	1,027
Ester	79	101	141
Amine	765	838	746
Na +, K +, Salt	106	117	140
OTHER CHEMICALS	1,722	1,642	932
BROMOXYNIL & DICAMBA	1,023	1,521	1,919
WILD OAT HERBICIDES	3,402	4,597	2,576
TOTAL	8,352	10,434	7,848
WILD OAT HERBICIDES		area treated	
Hectares	2 021 600	2 737 700	1 603 100
Acres	4,995,600	6,765,000	3,961,300

SOURCE: Manitoba Agriculture.

TABLE 67

Weather Record for the Year 1987, Winnipeg

Month	Temperature		Precipitation		Sunshine		
	Mean	Normal	1987	Normal	Duration (Hours)	Per Cent of Possible	Normal Hours
	Monthly °C	Mean °C					
January	-11.8	-19.3	10.4	21.3	99.2	37.1	121.2
February	-6.4	-15.6	40.8	17.5	58.5	20.8	144.2
March	-4.7	-8.2	13.3	22.7	155.7	42.3	176.2
April	8.8	3.4	0.8	38.5	282.3	68.4	219.8
May	14.8	11.3	31.6	65.7	276.6	58.0	265.6
June	19.0	16.8	55.2	80.1	366.5	75.0	276.1
July	20.0	19.6	130.1	75.9	266.8	54.2	315.6
August	17.2	18.3	97.1	75.2	263.0	58.7	283.3
September	14.1	12.4	20.0	53.3	192.7	50.8	184.6
October	3.4	6.1	33.4	30.9	158.9	47.6	151.5
November	-0.8	-4.5	11.2	25.2	121.6	44.6	90.7
December	-8.2	-14.0	14.6	19.2	62.9	24.8	92.6
YEAR	5.5	2.2	458.5	525.5	2,304.7	51.5	2,321.4

SOURCE: Atmospheric Environment Service, Environment Canada.

TABLE 68A

Precipitation at Various Manitoba Points, 1987

	— millimetres —												YEAR
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Altona	14.0	33.0	23.8	0.0	68.3	58.9	135.2	60.5	31.0	16.7	10.6	16.5	468.5
Birtle	12.2	18.8	30.9	2.3	42.1	59.8	104.0	38.8	24.6	34.0	2.3	3.1	372.9
Brandon A	9.7	32.6	48.2	5.3	31.2	60.2	108.5	67.0	35.7	15.8	3.4	8.6	426.2
Carman	13.0	49.0	7.0	11.3	51.2	45.9	121.4	87.0	31.8	14.8	3.6	32.2	468.2
Churchill A	26.5	17.4	23.6	21.9	69.0	59.6	37.0	66.0	42.2	28.4	21.4	17.1	430.1
Cypress River	6.0	36.0	14.2	2.4	42.2	36.4	120.4	148.8	55.0	21.4	TR	6.0	488.8
Dauphin A	8.4	33.6	21.5	15.3	19.8	62.2	78.5	46.6	84.8	32.5	1.8	10.2	415.2
Emerson	14.9	62.9	15.7	10.4	81.9	82.9	105.4	70.0	35.3	21.7	15.6	20.3	537.0
Flin Flon	24.2	29.3	13.0	3.8	60.3	55.8	63.3	70.7	39.5	27.4	3.6	7.8	398.7
Gimli	4.0	46.6	17.0	2.2	33.5	47.2	127.5	91.8	29.4	40.6	10.8	23.8	474.4
Hamiota	9.0	24.0	16.0	TR	26.2	106.6	98.4	25.4	17.0	11.0	3.1	8.0	344.7
Lundar	10.0	33.3	20.0	11.5	41.5	78.2	122.4	55.0	21.0	20.0	TR	7.0	419.9
McCreary	14.0	40.0	12.0	6.2	35.6	78.2	109.7	63.8	38.6	36.0	2.1	3.1	439.3
Morden AC	12.2	60.4	13.2	0.4	47.2	63.2	148.0	64.2	35.0	18.6	4.6	15.0	482.0
Morris	12.2	45.0	13.0	TR	80.4	59.5	133.9	45.3	40.3	15.7	8.2	13.0	466.5
Neepawa	11.4	39.7	44.8	8.2	47.4	74.2	225.2	61.4	36.6	16.2	3.2	9.6	477.9
Pierson	10.8	22.6	51.4	3.6	40.2	87.2	88.0	89.2	24.8	6.0	4.0	2.4	430.2
Pilot Mound	NA	NA	NA	1.4	60.6	59.0	99.6	107.6	57.4	15.4	4.0	16.2	421.2
Pinawa	7.6	38.0	13.9	1.6	66.9	34.6	129.2	79.7	7.7	29.3	15.6	20.3	444.4
Portage la Prairie	10.2	40.9	21.1	2.2	41.4	50.1	92.7	134.8	33.0	37.9	6.9	21.7	492.9
Roblin	TR	NA	48.6	21.1	43.9	63.5	102.3	43.0	40.4	21.9	3.3	13.0	401.0
Russell	11.0	28.6	51.8	18.4	40.4	68.0	94.8	44.8	61.6	36.8	2.0	15.0	473.2
Souris	16.0	40.2	44.4	10.4	52.8	67.0	108.2	124.8	25.4	15.0	3.8	14.6	522.6
Sprague	23.0	59.0	24.4	5.8	87.8	67.4	115.2	29.8	30.2	33.6	17.0	12.0	505.2
Steinbach	9.0	21.5	0.4	3.0	57.8	63.9	153.4	46.4	32.1	41.3	13.8	12.0	454.6
Swan River	7.8	26.4	36.2	11.4	43.0	68.4	194.4	62.2	36.0	48.7	16.8	29.2	580.5
The Pas A	11.2	19.2	25.8	8.7	26.8	51.8	53.4	95.7	24.6	50.4	10.6	14.9	393.1
Thompson A	24.4	25.8	29.5	20.6	30.6	77.3	42.8	103.2	51.0	27.8	13.3	21.2	467.5
Turtle Mountain	17.0	41.5	42.1	3.5	52.0	48.5	124.6	119.9	20.5	9.4	2.5	4.0	485.5
Virten	11.7	31.0	42.4	6.8	43.3	78.8	120.9	52.8	29.0	6.7	2.9	3.8	430.1
Winnipeg A	10.4	40.8	13.3	0.8	31.6	55.2	130.1	97.1	20.0	33.4	11.2	14.6	458.5

TABLE 68B

Precipitation at Various Manitoba Points, 1987

	— inches —												YEAR
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Altona	0.55	1.30	0.94	0.00	2.69	2.32	5.32	2.38	1.22	0.66	0.42	0.65	18.44
Birtle	0.48	0.74	1.22	0.09	1.66	2.35	4.09	1.53	0.97	1.34	0.09	0.12	14.68
Brandon A	0.38	1.28	1.90	0.21	1.23	2.37	4.27	2.64	1.41	0.62	0.13	0.34	16.78
Carman	0.51	1.93	0.28	0.44	2.02	1.81	4.78	3.43	1.25	0.58	0.14	1.27	18.43
Churchill A	1.04	0.69	0.93	0.86	2.72	2.35	1.46	2.60	1.66	1.12	0.84	0.67	16.93
Cypress River	0.24	1.42	0.56	0.09	1.66	1.43	4.74	5.86	2.17	0.84	TR	0.24	19.24
Dauphin A	0.33	1.32	0.85	0.60	0.78	2.45	3.09	1.83	3.34	1.28	0.07	0.40	16.35
Emerson	0.59	2.48	0.62	0.41	3.22	3.26	4.15	2.76	1.39	0.85	0.61	0.80	21.14
Flin Flon	0.95	1.15	0.51	0.15	2.37	2.20	2.49	2.78	1.56	1.08	0.14	0.31	15.70
Gimli	0.16	1.83	0.67	0.09	1.32	1.86	5.02	3.61	1.16	1.60	0.43	0.94	18.68
Hamiota	0.35	0.94	0.63	TR	1.03	4.20	3.87	1.00	0.67	0.43	0.12	0.31	13.57
Lundar	0.39	1.31	0.79	0.45	1.63	3.08	4.82	2.17	0.83	0.79	TR	0.28	16.53
McCreary	0.55	1.57	0.47	0.24	1.40	3.08	4.32	2.51	1.52	1.42	0.06	0.12	17.30
Morden AC	0.48	2.38	0.52	0.02	1.86	2.49	5.83	2.53	1.38	0.73	0.18	0.59	18.98
Morris	0.48	1.77	0.51	TR	3.17	2.34	5.27	1.78	1.59	0.62	0.32	0.51	18.37
Neepawa	0.45	1.56	1.76	0.32	1.87	2.92	8.87	2.42	1.44	0.64	0.13	0.38	22.75
Pierson	0.43	0.89	2.02	0.14	1.58	3.43	3.46	3.51	0.98	0.24	0.16	0.09	16.94
Pilot Mound	NA	NA	NA	0.06	2.39	2.32	3.92	4.24	2.26	0.61	0.16	0.64	16.58
Pinawa	0.30	1.50	0.55	0.06	2.63	1.36	5.09	3.14	0.30	1.15	0.61	0.80	17.50
Portage la Prairie	0.40	1.61	0.83	0.09	1.63	1.97	3.65	5.31	1.30	1.49	0.27	0.85	19.41
Roblin	TR	NA	1.91	0.83	1.73	2.50	4.03	1.69	1.59	0.86	0.13	0.51	15.79
Russell	0.43	1.13	2.04	0.72	1.59	2.68	3.73	1.76	2.43	1.45	0.08	0.59	18.63
Souris	0.63	1.58	1.75	0.41	2.08	2.64	4.26	4.91	1.00	0.59	0.15	0.57	20.57
Sprague	0.91	2.32	0.96	0.23	3.46	2.65	4.54	1.17	1.19	1.32	0.67	0.47	19.89
Steinbach	0.35	0.85	0.02	0.12	2.28	2.52	6.04	1.83	1.26	1.63	0.54	0.47	17.90
Swan River	0.31	1.04	1.43	0.45	1.69	2.69	7.65	2.45	1.42	1.92	0.66	1.15	22.85
The Pas A	0.44	0.76	1.02	0.34	1.06	2.04	2.10	3.77	0.97	1.98	0.42	0.59	15.48
Thompson A	0.96	1.02	1.16	0.81	1.20	3.04	1.68	4.06	2.01	1.09	0.52	0.83	18.41
Turtle Mountain	0.67	1.63	1.66	0.14	2.05	1.91	4.91	4.72	0.81	0.37	0.10	0.16	19.11
Virten	0.46	1.22	1.67	0.27	1.70	3.10	4.76	2.08	1.14	0.26	0.11	0.15	16.93
Winnipeg A	0.41	1.61	0.52	0.03	1.24	2.17	5.12	3.82	0.79	1.31	0.44	0.57	18.05

AC: Agriculture Canada A: Airport

NOTE: Totals may not add due to conversion to metric.

SOURCE: Environment Canada.

PAST TRENDS

TABLE 69

Historical Production Value Summary

Year	Crops	Livestock	Honey & Wax - million dollars -	Other	Total
1953	186	96	0.7	3.3	286
1954	143	101	0.6	3.4	248
1955	172	106	0.9	4.1	283
1956	208	103	0.9	4.1	316
1957	157	110	0.9	4.1	272
1958	195	141	0.8	4.2	341
1959	201	132	0.8	4.2	338
1960	224	124	0.9	3.1	352
1961	137	135	1.0	4.0	277
1962	293	129	0.8	3.2	426
1963	243	135	1.1	3.9	383
1964	295	134	1.0	3.0	433
1965	321	143	1.1	3.9	469
1966	322	165	1.4	3.6	492
1967	307	164	1.6	3.4	476
1968	294	164	0.7	3.3	462
1969	264	209	1.5	3.5	478
1970	233	223	1.5	1.5	459
1971	338	206	1.4	1.6	547
1972	437	253	3.0	1.0	694
1973	929	355	3.9	2.1	1,290
1974	708	339	3.5	3.5	1,054
1975	767	326	3.2	4.8	1,101
1976	741	330	4.8	7.2	1,083
1977	851	345	5.2	7.8	1,209
1978	1,077	428	8.0	4.0	1,517
1979	1,028	537	9.3	5.7	1,580
1980	1,122	533	9.3	4.7	1,669
1981	1,451	524	10.7	5.3	1,991
1982	1,434	562	11.0	7.8	2,015
1983	1,383	583	9.9	8.5	1,985
1984	1,620	661	9.1	11.3	2,302
1985	1,722	685	13.6*	13.7	2,434
1986	1,203	756	13.1*	23.7	1,996
1987	1,136	756	14.2	23.5	1,930

* Includes value of leafcutter bees.

CROPS

TABLE 70A

Historical Production and Value of Wheat — Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	930	1 405	1 307.0	50.00	65,280
1954	865	910	789.0	48.00	37,990
1955	839	1 360	1 143.0	52.00	59,640
1956	890	1 710	1 524.0	48.00	72,800
1957	891	1 495	1 333.0	48.00	64,680
1958	1 004	1 655	1 660.0	50.00	82,960
1959	1 081	1 560	1 687.0	51.00	85,560
1960	1 133	1 585	1 796.0	59.00	106,260
1961	1 179	785	926.0	65.00	59,840
1962	1 231	1 770	2 177.0	62.00	136,000
1963	1 276	1 300	1 660.0	63.00	104,310
1964	1 370	1 690	2 313.0	60.00	138,550
1965	1 311	1 640	2 150.0	61.00	130,350
1966	1 317	1 630	2 150.0	65.00	140,620
1967	1 424	1 720	2 449.0	60.00	147,600
1968	1 376	1 800	2 477.0	48.00	119,544
1969	1 012	1 720	1 742.0	46.00	79,360
1970	567	1 465	830.0	52.00	43,310
1971	1 019	1 975	2 014.0	50.00	101,380
1972	1 052	1 785	1 878.0	68.00	128,340
1973	1 214	1 725	2 095.0	158.00	331,100
1974	1 133	1 415	1 605.0	147.00	236,000
1975	1 255	1 690	2 123.0	130.00	275,340
1976	1 538	1 820	2 803.0	103.00	288,400
1977	1 295	2 125	2 749.0	98.00	269,670
1978	1 376	2 055	2 831.0	133.00	375,440
1979	1 214	1 680	2 041.0	170.00	346,260
1980	1 336	1 425	1 905.0	203.00	386,512
1981	1 578	2 110	3 326.0	174.00	580,041
1982	1 619	2 285	3 701.0	165.00	609,439
1983	1 862	1 830	3 410.0	174.00	594,204
1984	1 801	2 080	3 743.0	172.00	643,796
1985	1 942	2 690	5 226.0	148.00	773,448
1986	2 003	2 240	4 477.0	97.00	434,269
1987	1 963	2 010	3 946.5	100.00	397,750

TABLE 70B

Historical Production and Value of Wheat — Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	2,300	20.8	48,000	1.36	65,280
1954	2,139	13.5	29,000	1.31	37,990
1955	2,075	20.2	42,000	1.42	59,640
1956	2,199	25.6	56,000	1.30	72,800
1957	2,200	22.3	49,000	1.32	64,680
1958	2,480	24.6	61,000	1.36	82,960
1959	2,670	23.1	62,000	1.38	85,560
1960	2,800	23.6	66,000	1.61	106,260
1961	2,914	11.7	34,000	1.76	59,840
1962	3,042	26.3	80,000	1.70	136,000
1963	3,153	19.3	61,000	1.71	104,310
1964	3,385	25.1	85,000	1.63	138,550
1965	3,240	24.4	79,000	1.65	130,350
1966	3,255	24.3	79,000	1.78	140,620
1967	3,520	25.6	90,000	1.64	147,600
1968	3,400	26.8	91,000	1.31	119,544
1969	2,500	25.6	64,000	1.24	79,360
1970	1,400	21.8	30,500	1.42	43,310
1971	2,519	29.4	74,000	1.37	101,380
1972	2,600	26.5	69,000	1.86	128,340
1973	3,000	25.7	77,000	4.30	331,100
1974	2,800	21.1	59,000	4.00	236,000
1975	3,100	25.2	78,000	3.53	275,340
1976	3,800	27.1	103,000	2.80	288,400
1977	3,200	31.6	101,000	2.67	269,670
1978	3,400	30.6	104,000	3.61	375,440
1979	3,000	25.0	75,000	4.62	346,260
1980	3,300	21.2	70,000	5.52	386,512
1981	3,900	31.3	122,200	4.75	580,041
1982	4,000	34.0	136,000	4.48	609,439
1983	4,600	27.2	125,300	4.74	594,204
1984	4,450	30.9	137,500	4.68	643,796
1985	4,800	40.0	192,000	4.03	773,448
1986	4,950	33.2	164,500	2.64	434,269
1987	4,850	29.9	145,000	2.72	394,650

TABLE 71A

Historical Production and Value of Oats — Metric

Year	Harvested For Grain (000 hectares)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	571	1 430	817 000	38.00	30,740
1954	611	910	555 000	40.00	22,320
1955	601	1 285	771 000	42.00	32,000
1956	789	1 720	1 357 000	34.00	45,760
1957	607	1 220	740 000	34.00	24,960
1958	579	1 330	771 000	36.00	28,000
1959	575	1 340	771 000	42.00	32,000
1960	607	1 425	864 000	40.00	34,720
1961	526	705	370 000	41.00	15,120
1962	726	1 890	1 373 000	38.00	52,510
1963	656	1 455	956 000	36.00	34,100
1964	662	1 700	1 126 000	42.00	47,450
1965	617	1 850	1 141 000	46.00	52,540
1966	619	1 595	987 000	49.00	48,000
1967	647	1 575	1 018 000	45.00	45,540
1968	639	1 955	1 249 000	32.00	40,500
1969	619	1 720	1 064 000	35.00	37,260
1970	510	1 600	817 000	37.00	30,210
1971	565	2 075	1 172 000	34.00	40,280
1972	461	1 840	848 000	58.00	49,500
1973	526	1 850	972 000	106.00	102,690
1974	486	1 365	633 000	99.00	65,360
1975	445	1 735	771 000	93.00	72,000
1976	506	1 860	941 000	73.00	68,930
1977	425	2 105	894 000	64.00	57,420
1978	304	2 080	632 000	64.00	40,590
1979	182	1 690	308 000	89.00	27,400
1980	182	1 525	278 000	119.00	33,120
1981	243	1 905	463 000	105.00	48,580
1982	223	2 350	524 000	81.00	42,500
1983	223	1 800	401 000	110.00	44,110
1984	231	1 940	447 000	109.00	48,723
1985	223	2 490	555 000	88.00	48,400
1986	182	2 540	463 000	74.00	34,262
1987	182	2 290	416 000	89.50	37,232

TABLE 71B

Historical Production and Value of Oats — Imperial

Year	Harvested For Grain (000 acres)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	1,412	37.5	53,000	0.58	30,740
1954	1,510	23.8	36,000	0.62	22,320
1955	1,485	33.7	50,000	0.64	32,000
1956	1,950	45.0	88,000	0.52	45,760
1957	1,500	32.2	48,000	0.52	24,960
1958	1,430	35.1	50,000	0.56	28,000
1959	1,420	35.3	50,000	0.64	32,000
1960	1,500	37.3	56,000	0.62	34,720
1961	1,300	18.5	24,000	0.63	15,120
1962	1,794	49.6	89,000	0.59	52,510
1963	1,620	38.3	62,000	0.55	34,100
1964	1,635	44.6	73,000	0.65	47,450
1965	1,525	48.5	74,000	0.71	52,540
1966	1,530	41.8	64,000	0.75	48,000
1967	1,600	41.2	66,000	0.69	45,540
1968	1,580	51.3	81,000	0.50	40,500
1969	1,530	45.1	69,000	0.54	37,260
1970	1,260	42.1	53,000	0.57	30,210
1971	1,395	54.5	76,000	0.53	40,280
1972	1,140	48.2	55,000	0.90	49,500
1973	1,300	48.5	63,000	1.63	102,690
1974	1,200	35.8	43,000	1.52	65,360
1975	1,100	45.5	50,000	1.44	72,000
1976	1,250	48.8	61,000	1.13	68,930
1977	1,050	55.2	58,000	0.99	57,420
1978	750	54.7	41,000	0.99	40,590
1979	450	44.4	20,000	1.37	27,400
1980	450	40.0	18,000	1.84	33,120
1981	600	50.0	30,000	1.62	48,580
1982	550	61.8	34,000	1.25	42,500
1983	550	47.3	26,000	1.70	44,110
1984	570	50.9	29,000	1.68	48,720
1985	550	65.5	36,000	1.34	48,400
1986	450	66.7	30,000	1.14	34,262
1987	450	60.0	27,000	1.38	37,232

TABLE 72A

Historical Production and Value of Barley — Metric

Year	Harvested Hectares (000)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	957	1 390	1 328 000	42.00	55,510
1954	891	1 075	958 000	42.00	40,480
1955	846	1 030	871 000	43.00	37,600
1956	626	1 460	914 000	39.00	35,280
1957	690	1 040	718 000	37.00	26,730
1958	641	1 495	958 000	37.00	35,640
1959	514	1 398	718 000	36.00	25,740
1960	376	1 390	523 000	39.00	20,160
1961	265	740	196 000	48.00	9,450
1962	255	1 790	457 000	44.00	20,160
1963	236	1 475	348 000	45.00	15,520
1964	201	1 730	348 000	48.00	16,800
1965	243	1 970	479 000	48.00	23,100
1966	354	1 725	610 000	50.00	30,800
1967	393	1 825	718 000	41.00	29,370
1968	473	1 980	936 000	36.00	33,970
1969	486	1 880	914 000	32.00	28,980
1970	607	1 830	1 110 000	34.00	37,740
1971	830	2 465	2 047 000	32.00	65,800
1972	850	2 180	1 851 000	58.00	107,100
1973	850	2 125	1 807 000	115.00	208,330
1974	728	1 585	1 154 000	102.00	117,600
1975	607	1 830	1 110 000	105.00	116,280
1976	647	2 255	1 459 000	92.00	134,000
1977	769	2 660	2 047 000	76.00	155,100
1978	708	2 615	1 851 000	78.00	143,650
1979	587	2 150	1 263 000	103.00	129,920
1980	809	1 940	1 568 000	137.00	214,560
1981	951	2 450	2 330 000	119.00	277,228
1982	809	2 935	2 373 000	91.00	215,961
1983	708	2 245	1 589 000	120.00	190,680
1984	728	2 660	1 938 000	121.00	234,498
1985	749	3 370	2 526 000	96.00	242,496
1986	627	2 950	1 851 000	75.00	138,825
1987	688	2 820	1 938 000	62.50	121,125

TABLE 72B

Historical Production and Value of Barley — Imperial

Year	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	2,365	25.8	61,000	0.91	55,510
1954	2,202	20.0	44,000	0.92	40,480
1955	2,090	19.1	40,000	0.94	37,600
1956	1,548	26.9	42,000	0.84	35,280
1957	1,704	19.4	33,000	0.81	26,730
1958	1,584	27.8	44,000	0.81	35,640
1959	1,270	25.9	33,000	0.78	25,740
1960	930	26.1	24,000	0.84	20,160
1961	655	13.7	9,000	1.05	9,450
1962	629	33.4	21,000	0.96	20,160
1963	584	27.4	16,000	0.97	15,520
1964	497	32.2	16,000	1.05	16,800
1965	601	36.6	22,000	1.05	23,100
1966	875	32.0	28,000	1.10	30,800
1967	970	34.0	33,000	0.89	29,370
1968	1,170	36.8	43,000	0.79	33,970
1969	1,200	35.0	42,000	0.69	28,980
1970	1,500	34.0	51,000	0.74	37,740
1971	2,052	45.8	94,000	0.70	65,800
1972	2,100	40.5	85,000	1.26	107,100
1973	2,100	39.5	83,000	2.51	208,330
1974	1,800	29.4	53,000	2.22	117,660
1975	1,500	34.0	51,000	2.28	116,280
1976	1,600	41.9	67,000	2.00	134,000
1977	1,900	49.5	94,000	1.65	155,100
1978	1,750	48.6	85,000	1.69	143,650
1979	1,450	40.0	58,000	2.24	129,920
1980	2,000	36.0	72,000	2.98	214,560
1981	2,350	45.5	107,000	2.59	277,228
1982	2,000	54.5	109,000	1.98	215,961
1983	1,750	41.7	73,000	2.61	190,680
1984	1,800	49.4	89,000	2.63	234,498
1985	1,850	62.7	116,000	2.09	242,496
1986	1,550	54.8	85,000	1.63	138,825
1987	1,700	52.4	89,000	1.36	121,125

TABLE 73A Historical Production and Value of Canola (Rapeseed) Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1964	34 000	980	33 300	119.00	3,969
1965	58 700	925	54 400	108.00	5,880
1966	68 800	690	47 600	108.00	5,145
1967	58 700	890	52 200	85.00	4,416
1968	36 800	1 170	43 100	83.00	3,572
1969	79 300	1 000	79 400	106.00	8,400
1970	161 900	1 010	163 300	102.00	16,704
1971	235 100	1 160	272 200	95.00	25,800
1972	190 200	1 015	192 800	137.00	26,350
1973	161 900	1 080	174 600	258.00	44,968
1974	202 300	955	192 800	312.00	60,095
1975	303 500	935	283 500	225.00	63,875
1976	101 200	1 010	102 100	257.00	26,190
1977	202 300	1 435	290 300	278.00	80,768
1978	424 900	1 360	578 300	280.00	161,925
1979	546 300	1 040	567 000	267.00	151,250
1980	323 700	910	294 800	280.00	82,550
1981	242 800	1 260	306 200	275.00	84,198
1982	344 000	1 160	399 200	259.00	103,312
1983	384 000	1 035	397 000	383.00	152,051
1984	486 000	1 120	544 000	351.00	190,944
1985	405 000	1 570	635 000	266.00	168,910
1986	405 000	1 430	578 000	197.00	113,866
1987	405 000	1 440	585 000	255.00	149,175

TABLE 73B Historical Production and Value of Canola (Rapeseed) — Imperial

Year	Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1964	84 000	17.5	1,470	2.70	3,969
1965	145,000	16.6	2,400	2.45	5,880
1966	170,000	12.4	2,100	2.45	5,145
1967	145,000	15.9	2,300	1.92	4,416
1968	91,000	20.9	1,900	1.88	3,572
1969	196,000	17.9	3,500	2.40	8,400
1970	400,000	18.0	7,200	2.32	16,704
1971	581,000	20.7	12,000	2.15	25,800
1972	470,000	18.1	8,500	3.10	26,350
1973	400,000	19.2	7,700	5.84	44,968
1974	500,000	17.0	8,500	7.07	60,095
1975	750,000	16.7	12,500	5.11	63,875
1976	250,000	18.0	4,500	5.82	26,190
1977	500,000	25.6	12,800	6.31	80,768
1978	1,050,000	24.3	25,500	6.35	161,925
1979	1,350,000	18.5	25,000	6.05	151,250
1980	800,000	16.2	13,000	6.35	82,550
1981	600,000	22.5	13,500	6.24	84,198
1982	850,000	20.7	17,600	5.87	103,312
1983	950,000	18.4	17,500	8.69	152,051
1984	1,200,000	20.0	24,000	7.96	190,944
1985	1,000,000	28.0	28,000	6.03	168,910
1986	1,000,000	25.5	25,500	4.47	113,866
1987	1,000,000	25.8	25,800	5.78	149,175

TABLE 74A

Historical Production and Value of Flaxseed — Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	170	570	96.5	97.00	9,348
1954	180	565	101.6	104.00	10,600
1955	215	520	111.8	110.00	12,320
1956	319	635	203.2	102.00	20,720
1957	350	255	88.9	98.00	8,680
1958	223	535	119.4	103.00	12,314
1959	233	500	116.8	120.00	13,984
1960	286	570	162.6	108.00	17,600
1961	303	360	109.2	130.00	14,190
1962	270	735	198.1	118.00	23,400
1963	332	710	236.2	112.00	26,505
1964	415	650	269.3	116.00	31,270
1965	546	755	411.5	106.00	43,578
1966	448	595	266.0	106.00	28,350
1967	267	540	144.8	121.00	17,556
1968	332	795	264.2	112.00	29,536
1969	445	580	259.1	101.00	26,214
1970	445	655	292.1	87.00	25,530
1971	229	655	149.9	86.00	12,862
1972	202	740	149.9	161.00	24,190
1973	243	795	193.0	376.00	72,580
1974	283	590	167.6	376.00	63,096
1975	304	700	213.4	258.00	55,020
1976	212	755	160.0	267.00	42,714
1977	304	1 085	330.2	207.00	68,250
1978	304	1 045	317.5	268.00	85,125
1979	506	880	444.5	280.00	124,425
1980	324	650	210.0	320.00	67,479
1981	283	925	261.0	322.00	84,246
1982	364	1 200	436.9	244.00	106,640
1983	304	975	297.0	323.00	95,931
1984	425	1 030	439.0	317.00	139,163
1985	425	1 320	559.0	265.00	152,905
1986	417	1 370	572.0	173.00	98,956
1987	324	1 250	406.0	195.00	79,170

TABLE 74B

Historical Production and Value of Flaxseed — Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	420	9.0	3,800	2.46	9,348
1954	444	9.0	4,000	2.65	10,600
1955	531	8.3	4,400	2.80	12,320
1956	789	10.1	8,000	2.59	20,720
1957	855	4.0	3,500	2.48	8,680
1958	550	8.6	4,700	2.62	12,314
1959	575	8.0	4,600	3.04	13,984
1960	707	9.1	6,400	2.75	17,600
1961	748	5.7	4,300	3.30	14,190
1962	667	11.7	7,800	3.00	23,400
1963	820	11.3	9,300	2.85	26,505
1964	1,025	10.3	10,600	2.95	31,270
1965	1,350	12.0	16,200	2.69	43,578
1966	1,107	9.5	10,500	2.70	28,350
1967	660	8.6	5,700	3.08	17,556
1968	820	12.7	10,400	2.84	29,536
1969	1,100	9.3	10,200	2.57	26,214
1970	1,100	10.5	11,500	2.22	25,530
1971	566	10.4	5,900	2.18	12,862
1972	500	11.8	5,900	4.10	24,190
1973	600	12.7	7,600	9.55	72,580
1974	700	9.4	6,600	9.56	63,096
1975	750	11.2	8,400	6.55	55,020
1976	525	12.0	6,300	6.78	42,714
1977	750	17.3	13,000	5.25	68,250
1978	750	16.7	12,500	6.81	85,125
1979	1,250	14.0	17,500	7.11	124,425
1980	800	10.4	8,300	8.13	67,479
1981	700	14.7	10,300	8.18	84,246
1982	900	19.1	17,200	6.20	106,640
1983	750	15.6	11,700	8.20	95,931
1984	1,050	16.5	17,300	8.05	139,163
1985	1,050	21.0	22,000	6.74	152,905
1986	1,030	21.8	22,500	4.40	98,956
1987	800	20.0	16,000	4.95	79,170

TABLE 75A

Historical Production and Value of All Rye — Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	56 300	1 270	71.6	34.00	2,436
1954	37 500	1 092	40.8	37.00	1,495
1955	36 200	1 240	44.8	37.00	1,644
1956	27 800	990	27.5	39.00	1,067
1957	29 900	1 020	30.5	35.00	1,056
1958	28 600	1 050	30.0	34.00	1,020
1959	34 000	1 245	42.3	35.00	1,461
1960	33 800	1 240	41.9	34.00	1,444
1961	31 800	705	22.4	43.00	957
1962	48 200	1 585	76.5	41.00	3,150
1963	38 200	1 395	53.3	49.00	2,625
1964	54 200	1 315	71.3	41.00	2,940
1965	54 200	1 410	76.5	41.00	3,120
1966	40 200	1 525	61.4	42.00	2,592
1967	57 400	1 175	67.4	43.00	2,880
1968	48 400	1 310	63.5	39.00	2,500
1969	66 200	1 140	75.5	34.00	2,573
1970	52 800	1 365	72.0	34.00	2,469
1971	51 600	1 625	83.8	29.00	2,460
1972	32 600	1 435	46.8	51.00	2,397
1973	32 800	1 650	54.1	105.00	5,684
1974	40 800	1 545	63.0	89.00	5,625
1975	47 800	1 590	76.0	99.00	7,500
1976	36 800	1 855	68.3	85.00	5,778
1977	44 800	1 880	84.3	86.00	7,227
1978	50 800	1 955	99.4	102.00	10,140
1979	50 400	1 580	79.6	146.00	11,592
1980	60 800	1 235	75.0	171.00	12,848
1981	76 400	2 290	175.1	140.00	24,538
1982	92 800	2 295	213.1	87.00	18,564
1983	85 000	1 920	163.0	107.00	17,441
1984	88 600	2 210	195.8	93.00	18,209
1985	80 800	2 120	171.5	68.00	11,662
1986	30 900	1 970	61.0	61.00	3,721
1987	26 300	1 750	46.0	80.00	3,680

TABLE 75B

Historical Production and Value of All Rye — Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	138,000	20.3	2,800	0.87	2,436
1954	92,400	17.2	1,590	0.94	1,495
1955	89,000	19.7	1,750	0.94	1,644
1956	68,400	16.1	1,100	0.97	1,067
1957	72,900	16.5	1,200	0.88	1,056
1958	71,500	16.8	1,200	0.85	1,020
1959	83,000	20.0	1,660	0.88	1,461
1960	83,000	20.0	1,660	0.87	1,444
1961	79,500	11.1	886	1.08	957
1962	119,000	25.2	3,000	1.05	3,150
1963	95,000	22.1	2,100	1.25	2,625
1964	133,000	21.1	2,800	1.05	2,940
1965	133,000	22.6	3,000	1.04	3,120
1966	100,500	23.9	2,400	1.08	2,592
1967	141,100	18.9	2,667	1.08	2,880
1968	120,000	20.8	2,500	1.00	2,500
1969	163,000	18.1	2,958	0.87	2,573
1970	130,000	21.8	2,838	0.87	2,469
1971	128,500	25.5	3,280	0.75	2,460
1972	81,500	22.5	1,830	1.31	2,397
1973	82,000	26.2	2,145	2.65	5,684
1974	102,000	24.5	2,500	2.25	5,625
1975	117,000	25.6	3,000	2.50	7,500
1976	92,000	29.3	2,700	2.14	5,778
1977	110,000	30.0	3,300	2.19	7,227
1978	125,000	31.2	3,900	2.60	10,140
1979	125,000	25.2	3,150	3.68	11,592
1980	150,000	19.6	2,940	4.37	12,848
1981	190,000	36.3	6,900	3.56	24,538
1982	230,000	36.5	8,400	2.21	18,564
1983	210,000	30.6	6,420	2.72	17,441
1984	220,000	35.0	7,710	2.36	18,209
1985	200,000	33.8	6,760	2.32	11,662
1986	76,600	31.3	2,400	1.55	3,721
1987	65,000	27.7	1,800	2.04	3,680

TABLE 76A Historical Production and Value of Mixed Grains — Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	13 500	1 680	22 700	37.00	834
1954	15 500	1 295	20 100	39.00	787
1955	19 000	1 310	24 900	40.00	990
1956	27 100	1 765	47 800	31.00	1,499
1957	29 300	1 390	40 800	30.00	1,220
1958	44 900	1 545	69 400	32.00	2,244
1959	55 000	1 555	85 500	36.00	3,058
1960	51 000	1 600	81 500	37.00	2,996
1961	63 500	920	58 300	45.00	2,600
1962	50 200	2 035	102 100	40.00	4,100
1963	51 000	1 560	79 600	37.00	2,964
1964	51 000	1 960	100 000	41.00	4,116
1965	59 100	2 075	122 500	42.00	5,100
1966	74 500	1 875	139 700	47.00	6,503
1967	72 000	1 900	136 800	44.00	6,030
1968	72 000	2 185	157 200	38.00	5,929
1969	76 900	1 885	144 900	31.00	4,544
1970	101 200	1 855	187 800	35.00	6,532
1971	114 900	2 400	275 600	32.00	8,775
1972	117 400	2 175	255 100	53.00	13,500
1973	119 400	2 135	255 100	101.00	25,875
1974	80 900	1 515	122 500	93.00	11,400
1975	80 900	1 890	153 100	91.00	13,950
1976	68 800	2 045	140 800	77.00	10,833
1977	68 800	2 375	163 300	80.00	13,040
1978	64 700	2 395	155 100	83.00	12,920
1979	56 700	2 125	120 400	105.00	12,626
1980	48 600	1 805	87 800	130.00	11,395
1981	48 600	2 265	110 200	115.00	12,636
1982	48 600	2 685	130 600	89.00	11,648
1983	48 600	2 015	98 000	115.00	11,270
1984	50 600	2 330	118 000	127.00	14,986
1985	50 600	2 750	139 000	113.00	15,763
1986	32 400	2 530	82 000	92.00	7,544
1987	32 400	2 530	82 000	61.00	5,002

TABLE 76B Historical Production and Value of Mixed Grains — Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	33,300	33.4	1,112	0.75	834
1954	38,300	25.7	984	0.80	787
1955	47,000	26.0	1,222	0.81	990
1956	66,900	35.0	2,342	0.64	1,499
1957	72,300	27.7	2,000	0.61	1,220
1958	111,000	30.6	3,400	0.66	2,244
1959	136,000	30.8	4,189	0.73	3,058
1960	126,000	31.7	3,994	0.75	2,996
1961	157,000	18.2	2,857	0.91	2,600
1962	124,000	40.3	5,000	0.82	4,100
1963	126,000	31.0	3,900	0.76	2,964
1964	126,000	38.9	4,900	0.84	4,116
1965	146,000	41.1	6,000	0.85	5,100
1966	184,000	37.2	6,845	0.95	6,503
1967	178,000	37.6	6,700	0.90	6,030
1968	178,000	43.3	7,700	0.77	5,929
1969	190,000	37.4	7,100	0.64	4,544
1970	250,000	36.8	9,200	0.71	6,532
1971	284,000	47.5	13,500	0.65	8,775
1972	290,000	43.1	12,500	1.08	13,500
1973	295,000	42.4	12,500	2.07	25,875
1974	200,000	30.0	6,000	1.90	11,400
1975	200,000	37.5	7,500	1.86	13,950
1976	170,000	40.6	6,900	1.57	10,833
1977	170,000	47.1	8,000	1.63	13,040
1978	160,000	47.5	7,600	1.70	12,920
1979	140,000	42.1	5,900	2.14	12,626
1980	120,000	35.8	4,300	2.65	11,395
1981	120,000	45.0	5,400	2.35	12,676
1982	120,000	53.3	6,400	1.82	11,648
1983	120,000	40.0	4,800	2.31	11,270
1984	125,000	46.4	5,800	2.55	14,986
1985	125,000	54.4	6,800	2.32	15,763
1986	80,000	50.0	4,000	1.89	7,544
1987	80,000	50.0	4,000	1.25	5,002

TABLE 77A

Historical Production and Value of Grain Corn — Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	6 100	1 870	11 400	39.00	450
1954	4 000	1 475	5 900	43.00	254
1955	2 500	1 920	4 800	43.00	208
1956	2 900	1 550	4 500	48.00	214
1957	3 200	1 595	5 100	47.00	240
1958	2 800	1 570	4 400	46.00	203
1959	2 000	1 900	3 800	37.00	142
1960	2 200	2 045	4 500	43.00	193
1961	1 700	1 825	3 100	45.00	141
1962	1 300	2 615	3 400	45.00	152
1963	1 800	2 555	4 600	49.00	225
1964	2 000	1 600	3 200	47.00	150
1965	2 400	1 585	3 800	49.00	188
1966	1 200	2 750	3 300	58.00	191
1967	2 200	3 180	7 000	59.00	412
1968	1 000	2 500	2 500	53.00	132
1969	1 200	2 085	2 500	54.00	135
1970	1 400	2 570	3 600	58.00	210
1971	3 700	3 025	11 200	49.00	550
1972	5 300	3 360	17 800	61.00	1,085
1973	6 500	3 445	22 400	120.00	2,684
1974	2 000	2 400	4 800	145.00	697
1975	4 900	3 900	19 100	120.00	2,288
1976	6 900	4 230	29 200	119.00	3,473
1977	9 700	4 060	39 400	103.00	4,061
1978	35 600	4 140	147 300	110.00	16,240
1979	52 600	3 765	198 100	124.00	24,570
1980	56 700	3 360	190 500	134.00	25,500
1981	91 100	4 740	431 800	106.00	46,205
1982	80 900	3 140	254 000	105.00	26,671
1983	77 000	2 830	218 000	130.00	28,340
1984	73 000	3 230	236 000	140.00	33,040
1985	40 500	1 880	76 000	120.00	9,120
1986	13 800	4 420	61 000	92.00	7,164
1987	20 200	5 400	109 000	92.00	10,028

TABLE 77B Historical Production and Value of Grain Corn — Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	15,000	30.0	450	1.00	450
1954	9,900	23.3	231	1.10	254
1955	6,300	30.0	189	1.10	208
1956	7,100	25.0	178	1.20	214
1957	8,000	25.0	200	1.20	240
1958	7,000	25.0	175	1.16	203
1959	5,000	30.0	150	0.95	142
1960	5,500	32.5	179	1.08	193
1961	4,100	30.0	123	1.15	141
1962	3,300	40.0	132	1.15	152
1963	4,500	40.0	180	1.25	225
1964	5,000	25.0	125	1.20	150
1965	6,000	25.0	150	1.25	188
1966	2,900	44.8	130	1.47	191
1967	5,500	50.0	275	1.50	412
1968	2,500	40.0	100	1.32	132
1969	3,000	33.3	100	1.35	135
1970	3,500	40.0	140	1.50	210
1971	9,100	48.4	440	1.25	550
1972	13,000	53.8	700	1.55	1,085
1973	16,000	55.0	880	3.05	2,684
1974	5,000	38.0	190	3.67	697
1975	12,000	62.5	750	3.05	2,288
1976	17,000	67.6	1,150	3.02	3,473
1977	24,000	64.6	1,550	2.62	4,061
1978	88,000	65.9	5,800	2.80	16,240
1979	130,000	60.0	7,800	3.15	24,570
1980	140,000	53.6	7,500	3.40	25,500
1981	225,000	75.6	17,000	2.72	46,205
1982	200,000	50.0	10,000	2.67	26,671
1983	190,000	45.3	8,600	3.30	28,340
1984	180,000	51.7	9,300	3.56	33,040
1985	100,000	30.0	3,000	3.04	9,120
1986	34,000	70.6	2,400	2.34	5,612
1987	50,000	86.0	4,300	2.33	10,028

TABLE 78A

Historical Production and Value of Field Peas — Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	15 000	1 410	21 150	53.00	1,127
1954	12 100	1 215	14 700	77.00	1,134
1955	16 600	670	11 150	74.00	820
1956	22 500	1 415	31 800	55.00	1,752
1957	22 700	1 005	22 850	55.00	1,260
1958	21 000	945	19 800	74.00	1,456
1959	19 800	810	16 000	70.00	1,117
1960	16 600	1 255	20 850	74.00	1,534
1961	18 900	1 010	19 050	77.00	1,470
1962	12 900	1 055	13 600	81.00	1,100
1963	15 000	1 270	19 050	85.00	1,610
1964	23 900	1 545	36 950	70.00	2,578
1965	17 200	1 495	25 700	66.00	1,699
1966	18 600	1 070	19 900	83.00	1,645
1967	12 100	1 575	19 050	77.00	1,470
1968	13 400	1 070	14 350	75.00	1,072
1969	21 000	970	20 400	69.00	1,402
1970	24 300	1 140	27 750	68.00	1,897
1971	20 500	1 595	32 650	64.00	2,100
1972	18 200	1 495	27 200	70.00	1,900
1973	14 200	1 610	22 850	202.00	4,620
1974	16 200	1 395	22 600	232.00	5,246
1975	14 200	1 435	20 400	165.00	3,375
1976	15 400	1 750	26 950	174.00	4,702
1977	22 300	1 650	36 750	202.00	7,425
1978	25 500	2 025	51 700	151.00	7,790
1979	28 300	1 825	51 700	160.00	8,265
1980	34 000	1 440	49 000	238.00	11,664
1981	40 500	1 950	78 950	250.00	19,731
1982	44 500	1 835	81 650	193.00	15,758
1983	40 500	1 680	68 000	220.00	14,960
1984	44 500	1 830	81 600	227.00	18,523
1985	40 500	2 689	108 900	211.00	23,000
1986	58 700	1 760	103 400	190.00	19,646
1987	72 800	1 980	144 200	194.00	27,975

TABLE 78B Historical Production and Value of Field Peas — Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1953	37,000	21.0	777	1.45	1,127
1954	30,000	18.0	540	2.10	1,134
1955	41,000	10.0	410	2.00	820
1956	55,600	21.0	1,168	1.50	1,752
1957	56,000	15.0	840	1.50	1,260
1958	52,000	14.0	728	2.00	1,456
1959	49,000	12.0	588	1.90	1,117
1960	41,000	18.7	767	2.00	1,534
1961	46,700	15.0	700	2.10	1,470
1962	31,800	15.7	500	2.20	1,100
1963	37,000	18.9	700	2.30	1,610
1963	37,000	18.9	700	2.30	1,610
1964	59,000	23.0	1,357	1.90	2,578
1965	42,500	22.2	944	1.80	1,699
1966	46,000	15.9	731	2.25	1,645
1967	30,000	23.3	700	2.10	1,470
1968	33,000	16.0	528	2.03	1,072
1969	52,000	14.4	750	1.87	1,402
1970	60,000	17.0	1,020	1.86	1,897
1971	50,700	23.7	1,200	1.75	2,100
1972	45,000	22.2	1,000	1.90	1,900
1973	35,000	24.0	840	5.50	4,620
1974	40,000	20.8	830	6.32	5,246
1975	35,000	21.4	750	4.50	3,375
1976	38,000	26.1	990	4.75	4,702
1977	55,000	24.5	1,350	5.50	7,425
1978	63,000	30.2	1,900	4.10	7,790
1979	70,000	27.1	1,900	4.35	8,265
1980	84,000	21.4	1,800	6.48	11,664
1981	100,000	29.0	2,900	6.80	19,731
1982	110,000	27.3	3,000	5.25	15,758
1983	100,000	25.0	2,500	5.98	14,960
1984	110,000	27.3	3,000	6.18	18,523
1985	100,000	37.0	3,700	5.75	23,000
1986	145,000	26.2	3,800	5.17	19,646
1987	180,000	29.4	5,300	5.28	27,975

TABLE 79A

Historical Production and Value of Buckwheat — Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1959	6 100	535	3 250	42.00	135
1960	6 100	835	5 100	46.00	234
1961	5 300	585	3 100	53.00	164
1962	4 000	1 140	4 550	74.00	336
1963	6 100	1 075	6 550	66.00	435
1964	10 500	830	8 700	46.00	400
1965	8 100	535	4 350	48.00	210
1966	9 200	805	7 400	85.00	629
1967	18 200	630	11 450	92.00	1,050
1968	20 200	570	11 550	90.00	1,034
1969	20 200	700	14 150	80.00	1,138
1970	32 400	940	30 500	64.00	1,960
1971	32 400	1 075	34 850	69.00	2,400
1972	30 400	825	25 050	64.00	1,610
1973	26 300	745	19 600	172.00	3,375
1974	16 200	940	15 240	223.00	3,402
1975	10 100	925	9 350	156.00	1,462
1976	17 800	480	8 700	186.00	1,616
1977	32 400	1 010	32 650	207.00	6,750
1978	48 600	1 210	58 800	207.00	12,150
1979	54 600	400	21 750	201.00	4,380
1980	39 700	440	17 400	287.00	5,000
1981	50 600	905	45 700	377.00	17,237
1982	46 500	470	21 750	317.00	6,902
1983	36 400	655	23 900	320.00	7,648
1984	28 300	460	13 100	345.00	4,520
1985	12 100	880	10 700	344.00	4,890
1986	21 900	920	20 200	248.00	5,010
1987	16 000	1 260	20 200	248.00	5,010

TABLE 80A

Historical Production and Value of Mustard Seed — Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1971	4 200	880	3 700	84.00	312
1972	6 100	935	5 700	99.00	562
1973	16 200	895	14 500	154.00	2,240
1974	16 200	840	13 600	408.00	5,550
1975	9 300	710	6 600	275.00	1,812
1976	7 300	890	6 500	248.00	1,613
1977	16 200	1 005	16 300	232.00	3,780
1978	25 100	1 155	29 000	243.00	7,040
1979	10 100	940	9 500	221.00	2,100
1980	17 800	915	16 300	331.00	5,400
1981	18 200	1 050	19 100	382.00	7,296
1982	10 100	1 060	10 700	240.00	2,569
1983	12 100	960	11 600	353.00	4,095
1984	16 200	840	13 600	353.00	4,801
1985	16 200	1 235	20 000	350.00	7,000
1986	14 200	1 210	17 200	287.00	4,936
1987	6 100	1 260	7 700	260.00	2,002

TABLE 79B Historical Production and Value of Buckwheat — Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value	
				Price Per Bushel \$	Total (\$000)
1959	15,000	10.0	150	0.90	135
1960	15,000	15.6	234	1.00	234
1961	13,200	10.8	143	1.15	164
1962	10,000	21.0	210	1.60	336
1963	15,000	20.0	300	1.45	435
1964	26,000	15.4	400	1.00	400
1965	20,000	10.0	200	1.05	210
1966	22,700	15.0	340	1.85	629
1967	45,000	11.7	525	2.00	1,050
1968	50,000	10.6	530	1.95	1,034
1969	50,000	13.0	650	1.75	1,138
1970	80,000	17.5	1,400	1.40	1,960
1971	80,000	20.0	1,600	1.50	2,400
1972	75,000	15.3	1,150	1.40	1,610
1973	65,000	13.8	900	3.75	3,375
1974	40,000	17.5	700	4.86	3,402
1975	25,000	17.2	430	3.40	1,462
1976	44,000	9.1	400	4.04	1,616
1977	80,000	18.8	1,500	4.50	6,750
1978	120,000	22.5	2,700	4.50	12,150
1979	135,000	7.4	1,000	4.38	4,380
1980	98,000	8.2	800	6.25	5,000
1981	125,000	16.8	2,100	8.21	17,237
1982	115,000	8.7	1,000	6.90	6,902
1983	90,000	12.2	1,100	6.95	7,648
1984	70,000	8.6	600	7.51	4,520
1985	30,000	16.3	490	7.52	4,890
1986	54,000	17.2	930	5.39	5,010
1987	40,000	23.3	930	5.39	5,010

TABLE 80B Historical Production and Value of Mustard Seed — Imperial

Year	Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value	
				Price Per Pound \$	Total (\$000)
1971	10,300	796	8,200	038	312
1972	15,000	833	12,500	045	562
1973	40,000	800	32,000	070	2,240
1974	40,000	750	30,000	185	5,550
1975	23,000	630	14,500	125	1,812
1976	18,000	800	14,400	112	1,613
1977	40,000	900	36,000	105	3,780
1978	62,000	1,032	64,000	110	7,040
1979	25,000	840	21,000	100	2,100
1980	44,000	818	36,000	150	5,400
1981	45,000	933	42,000	173	7,296
1982	25,000	940	23,500	109	2,569
1983	30,000	850	25,500	160	4,095
1984	40,000	750	30,000	160	4,801
1985	40,000	1,100	44,000	160	7,000
1986	35,000	1,086	38,000	130	4,936
1987	15,000	1,133	17,000	120	2,002

TABLE 81A

Historical Production and Value of Sunflowers — Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1959	12 900	545	7 000	88.00	614
1960	11 300	905	10 200	99.00	1,008
1961	12 300	790	9 700	99.00	961
1962	8 300	845	7 000	121.00	845
1963	15 000	1 060	15 900	97.00	1,547
1964	19 400	590	11 400	111.00	1,260
1965	19 400	620	12 000	132.00	1,584
1966	17 400	730	12 700	132.00	1,680
1967	17 800	900	16 000	99.00	1,584
1968	15 000	725	10 900	110.00	1,200
1969	19 400	795	15 400	121.00	1,870
1970	26 300	895	23 600	138.00	3,250
1971	62 700	840	52 700	135.00	7,091
1972	76 900	895	68 900	154.00	10,640
1973	50 600	785	39 700	220.00	8,750
1974	8 500	975	8 300	450.00	3,731
1975	25 100	1 190	29 900	221.00	6,600
1976	20 200	1 190	24 000	221.00	5,300
1977	66 800	1 190	79 400	253.00	20,125
1978	87 000	1 325	115 200	243.00	27,940
1979	153 800	1 355	208 700	242.00	50,600
1980	129 500	1 225	158 800	220.00	35,000
1981	109 300	1 455	158 800	227.00	36,038
1982	70 800	1 235	87 300	198.00	17,289
1983	40 500	1 120	45 400	298.00	13,529
1984	78 900	1 150	90 700	360.00	32,652
1985	64 700	1 190	77 100	230.00	17,733
1986	23 100	1 430	33 100	209.00	6,918
1987	28 300	1 570	44 500	202.00	8,989

TABLE 81B Historical Production and Value of Sunflowers — Imperial

Year	Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value	
				Price Per Pound \$	Total (\$000)
1959	32.000	480	15.360	.040	614
1960	28.000	800	22.400	.045	1,008
1961	30.500	700	21.350	.045	961
1962	20.500	749	15.360	.055	845
1963	37.000	950	35.150	.044	1,547
1964	48.000	525	25.200	.050	1,260
1965	48.000	550	26.400	.060	1,584
1966	43.100	650	28.000	.060	1,680
1967	44.000	800	35.200	.045	1,584
1968	37.000	650	24.000	.050	1,200
1969	48.000	708	34.000	.055	1,870
1970	65.000	800	52.000	.0625	3,250
1971	155.000	750	116.250	.061	7,091
1972	190.000	800	152.000	.070	10,640
1973	125.000	700	87.500	.100	8,750
1974	21.000	867	18.200	.205	3,731
1975	62.000	1.065	66.000	.100	6,600
1976	50.000	1.060	53.000	.100	5,300
1977	165.000	1.061	175.000	.115	20,125
1978	215.000	1.182	254.000	.110	27,940
1979	380.000	1.211	460.000	.110	50,600
1980	320.000	1.094	350.000	.100	35,000
1981	270.000	1.296	350.000	.103	36,038
1982	175.000	1.100	192.500	.090	17,289
1983	100.000	1.000	100.000	.135	13,529
1984	195.000	1.026	200.000	.163	32,652
1985	160.000	1.063	170.000	.100	17,733
1986	57.000	1.281	73.000	.090	6,918
1987	70.000	1.400	98.000	.090	8,989

TABLE 82A **Historical Production and Value of Tame Hay — Metric**

Year	Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	180	4.76	857	11.00	9,450
1954	220	4.74	1 043	11.00	11,500
1955	240	4.41	1 058	11.60	12,243
1956	260	4.42	1 150	11.00	12,680
1957	290	3.99	1 157	11.00	12,750
1958	320	2.89	924	15.20	14,011
1959	348	3.92	1 332	16.50	22,020
1960	380	3.83	1 457	14.20	20,717
1961	410	2.00	820	19.30	15,820
1962	420	4.51	1 896	15.40	29,260
1963	410	4.13	1 694	16.50	28,005
1964	400	3.32	1 329	17.60	23,440
1965	390	3.80	1 481	18.20	26,928
1966	430	4.43	1 903	18.20	34 17
1967	430	3.37	1 451	19.30	28,000
1968	380	3.82	1 451	20.40	29,600
1969	400	3.31	1 724	18.20	31,350
1970	470	4.30	2 023	16.50	33,450
1971	440	4.33	1 905	18.20	34,650
1972	490	3.70	1 814	22.10	40,000
1973	490	4.07	1 996	33.10	66,000
1974	510	4.27	2 177	38.60	84,000
1975	510	4.45	2 268	40.80	92,500
1976	570	4.14	2 359	41.50	97,968
1977	570	4.14	2 359	41.30	97,500
1978	570	4.62	2 631	40.70	107,010
1979	550	4.29	2 359	50.00	117,936
1980	530	2.57	1 361	70.00	95,250
1981	510	4.45	2 268	60.00	136,078
1982	510	4.45	2 268	55.00	124,738
1983	526	4.14	2 177	55.00	119,735
1984	526	3.97	2 087	62.00	129,394
1985	546	3.99	2 177	62.80	136,716
1986	587	5.25	3 084	61.00	188,124
1987	627	4.63	2 903	45.00	130,635

TABLE 82B

Historical Production and Value of Tame Hay — Imperial

Year	Acres (000)	Yield Per Acre (tons)	Production (000 tons)	Farm Value	
				Price Per Ton \$	Total (\$000)
1953	450	2.10	945	10.00	9.450
1954	540	2.13	1,150	10.00	11.500
1955	583	2.00	1,166	10.50	12.243
1956	634	2.00	1,268	10.00	12.680
1957	722	1.77	1,275	10.00	12.750
1958	790	1.29	1,019	13.75	14.011
1959	834	1.76	1,468	15.00	22.020
1960	934	1.72	1,606	12.90	20.717
1961	1,004	0.90	904	17.50	15.820
1962	1,045	2.00	2,090	14.00	29.260
1963	1,020	1.83	1,867	15.00	28.005
1964	990	1.48	1,465	16.00	23.440
1965	960	1.70	1,632	16.50	26.928
1966	1,065	1.97	2,098	16.50	34.617
1967	1,052	1.52	1,600	17.50	28.000
1968	940	1.70	1,600	18.50	29.600
1969	1,000	1.90	1,900	16.50	31,350
1970	1,160	1.92	2,230	15.00	33.450
1971	1,084	1.94	2,100	16.50	34.650
1972	1,200	1.67	2,000	20.00	40.000
1973	1,200	1.83	2,200	30.00	66.000
1974	1,250	1.92	2,400	35.00	84.000
1975	1,250	2.00	2,500	37.00	92.500
1976	1,400	1.86	2,600	37.68	97.968
1977	1,400	1.86	2,600	37.50	97.500
1978	1,400	2.07	2,900	36.90	107.010
1979	1,350	1.93	2,600	45.36	117.936
1980	1,300	1.15	1,500	63.50	95.250
1981	1,250	2.00	2,500	54.43	136.078
1982	1,250	2.00	2,500	49.90	124.738
1983	1,300	1.85	2,400	49.89	119.735
1984	1,300	1.77	2,300	56.24	129.394
1985	1,350	1.78	2,400	57.00	136.716
1986	1,450	2.34	3,400	55.33	188,124
1987	1,550	2.06	3,200	40.82	130.635

TABLE 83A

Historical Production and Value of Silage Corn — Metric

Year	Planted Hectares	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	7 500	11.07	83	6.70	552
1954	6 400	10.78	69	6.60	456
1955	6 300	13.49	85	6.64	564
1956	7 800	11.41	89	6.60	588
1957	7 200	11.39	82	6.60	540
1958	9 600	10.42	100	8.30	825
1959	11 300	11.68	132	7.70	1,022
1960	10 900	11.93	130	7.70	1,001
1961	12 700	8.90	113	10.50	1,188
1962	15 600	15.13	236	7.70	1,820
1963	15 300	17.91	274	7.70	2,114
1964	19 800	11.21	222	6.60	1,470
1965	17 800	13.37	238	7.70	1,834
1966	15 000	13.80	207	7.70	1,596
1967	10 500	12.10	127	7.70	980
1968	11 900	12.77	152	7.70	1,176
1969	9 300	15.27	142	7.70	1,099
1970	8 100	13.46	109	7.70	840
1971	3 900	15.41	64	7.70	490
1972	8 900	16.29	145	11.06	1,600
1973	9 700	15.46	150	13.20	1,980
1974	11 300	16.90	191	15.40	2,940
1975	13 400	19.63	263	16.50	4,350
1976	13 400	18.96	254	16.50	4,200
1977	15 800	20.13	318	16.50	5,250
1978	17 000	21.35	363	18.70	6,800
1979	18 200	17.97	327	16.50	5,389
1980	30 400	12.53	381	28.00	10,668
1981	20 200	17.52	354	20.00	7,076
1982	31 200	15.42	481	18.00	8,655
1983	20 200	15.25	308	21.00	6,468
1984	18 200	13.50	245	22.00	5,390
1985	18 200	15.90	290	21.00	6,090
1986	12 900	21.10	272	15.90	4,325
1987	10 100	20.70	209	15.00	3,135

TABLE 83B Historical Production and Value of Silage Corn — Imperial

Year	Planted Acres	Yield Per Acre (tons)	Production (000 tons)	Farm Value	
				Price Per Ton £	Total (\$000)
1953	18 500	5.00	92	6.00	552
1954	15 900	4.80	76	6.00	456
1955	15 600	6.00	94	6.00	564
1956	19 200	5.10	98	6.00	588
1957	17 900	5.00	90	6.00	540
1958	23 800	4.62	110	7.50	825
1959	28 000	5.21	146	7.00	1,022
1960	26 900	5.32	143	7.00	1,001
1961	31 300	4.00	125	9.50	1,188
1962	38 500	6.75	260	7.00	1,820
1963	37 800	7.99	302	7.00	2,114
1964	49 000	5.00	245	6.00	1,470
1965	44 000	5.95	262	7.00	1,834
1966	37 100	6.15	228	7.00	1,596
1967	26 000	5.38	140	7.00	980
1968	29 500	5.69	168	7.00	1,176
1969	23 000	6.84	157	7.00	1,099
1970	20 000	6.00	120	7.00	840
1971	9 700	7.22	70	7.00	490
1972	22 000	7.27	160	10.00	1,600
1973	24 000	6.88	165	12.00	1,980
1974	28 000	7.50	210	14.00	2,940
1975	33 000	8.79	290	15.00	4,350
1976	33 000	8.48	280	15.00	4,200
1977	39 000	8.97	350	15.00	5,250
1978	42 000	9.52	400	17.00	6,800
1979	45 000	8.00	360	14.97	5,389
1980	75 000	5.60	420	25.40	10,668
1981	50 000	7.80	390	18.14	7,076
1982	77 000	6.88	530	16.33	8,655
1983	50 000	6.80	340	19.02	6,468
1984	45 000	6.00	270	19.95	5,390
1985	45 000	7.11	320	19.03	6,090
1986	32 000	9.38	300	14.42	4,325
1987	25 000	9.20	230	13.63	3,135

TABLE 84A

Historical Production and Value of Sugar Beets — Metric

Year	Harvested Hectares	Yield Per Hectare (tonnes)	Production (tonnes)	Factory Value*	
				Price Per Tonne \$	Total (\$000)
1953	7 064	20.83	147 100	13.46	1,980
1954	9 514	22.60	215 012	13.18	2,834
1955	8 399	22.25	186 858	14.53	2,715
1956	9 230	22.50	207 670	18.56	3,854
1957	8 668	22.91	198 575	13.81	2,742
1958	8 885	20.02	177 909	18.17	3,233
1959	7 092	24.54	174 065	13.15	2,289
1960	10 145	23.11	234 464	15.13	3,547
1961	8 556	19.94	170 640	14.24	2,430
1962	8 727	20.45	178 473	22.28	3,976
1963	11 381	27.71	315 419	18.36	5,791
1964	12 068	21.40	258 285	15.62	4,034
1965	10 488	22.69	237 930	18.92	4,502
1966	9 326	23.79	221 836	18.51	4,106
1967	10 886	18.90	205 691	19.62	4,036
1968	11 768	23.01	270 725	17.61	4,767
1969	12 789	24.34	311 322	19.07	5,937
1970	9 317	21.05	196 084	18.87	3,702
1971	12 495	26.36	329 326	21.03	6,926
1972	11 371	26.39	300 115	24.33	7,301
1973	9 984	27.95	279 039	35.13	9,803
1974	10 899	18.44	200 938	56.14	11,281
1975	12 915	27.83	359 449	39.99	14,374
1976	12 541	27.90	349 919	34.06	11,918
1977	10 236	39.09	400 102	31.30	12,523
1978	9 575	38.93	372 800	38.17	14,230
1979	8 945	27.97	250 187	77.80	19,466
1980	9 845	23.85	234 787	55.61	13,057
1981	11 229	36.20	406 442	41.33	16,798
1982	11 234	33.14	372 271	52.34	19,485
1983	11 123	27.32	333 900	39.62	13,229
1984	10 768	30.84	332 086	33.99**	11,288
1985	9 602	30.25	290 474	44.64**	12,967**
1986	11 300	30.96	349 693	43.08	15,064
1987	10 800	39.30	424 000	44.51	18,872

* Includes deficiency payments starting in 1958.

** Part payment only.

TABLE 84B Historical Production and Value of Sugar Beets — Imperial

Year	Harvested Acres	Yield Per Acre (tons)	Production (tons)	Factory Value*	
				Price Per Ton \$	Total (\$000)
1953	17,455	9.29	162,159	12.21	1,980
1954	23,510	10.08	237,008	11.96	2,834
1955	20,754	9.92	205,974	13.18	2,715
1956	22,808	10.04	228,915	16.84	3,854
1957	21,420	10.22	218,889	12.53	2,742
1958	21,955	8.93	196,109	16.48	3,233
1959	17,525	10.95	191,872	11.93	2,289
1960	25,068	10.31	258,450	13.73	3,547
1961	21,141	8.90	188,096	12.92	2,430
1962	21,565	9.12	196,731	20.21	3,976
1963	28,123	12.36	347,686	16.66	5,791
1964	29,819	9.55	284,708	14.17	4,034
1965	25,917	10.12	262,270	17.16	4,502
1966	23,045	10.61	244,530	16.79	4,106
1967	26,899	8.43	226,733	17.80	4,067
1968	29,079	10.26	298,420	15.98	4,737
1969	31,602	10.86	343,170	17.30	5,937
1970	23,022	9.39	216,143	17.12	3,700
1971	30,876	11.76	363,016	19.08	6,926
1972	28,098	11.77	330,817	22.07	7,302
1973	24,670	12.47	307,585	31.87	9,803
1974	26,931	8.22	221,494	50.93	11,281
1975	31,912	12.42	396,221	36.28	14,374
1976	30,990	12.45	385,716	30.90	11,918
1977	25,292	17.44	441,032	28.39	12,523
1978	23,659	17.37	410,937	34.63	14,230
1979	22,103	12.48	275,781	70.58	19,466
1980	24,326	10.64	258,806	50.45	13,057
1981	27,747	16.15	448,021	37.49	16,798
1982	27,759	14.78	410,354	47.48	19,485
1983	27,484	13.39	368,058	35.94	13,229
1984	26,607	13.76	366,058	30.84**	11,288
1985	23,727	13.49	320,189	40.50**	12,967**
1986	28,000	13.79	386,000	39.03	15,064
1987	26,600	17.58	467,500	40.37	18,872

* Includes deficiency payments starting in 1958.

**Part payment only.

TABLE 85A

Historical Production and Value of Potatoes — Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne \$	Total (\$000)
1953	7 001	11 433	80 042	23.15	1,853
1954	6 353	9 082	57 698	44.82	2,586
1955	6 111	9 076	55 466	47.76	2,649
1956	6 677	12 440	83 063	33.07	2,747
1957	6 192	7 736	47 900	62.46	2,992
1958	6 313	8 609	54 350	40.79	2,217
1959	6 273	7 731	48 499	33.07	1,604
1960	6 880	10 087	69 401	17.64	1,224
1961	8 215	4 237	34 809	35.28	1,228
1962	9 308	12 778	118 934	17.64	2,098
1963	8 013	11 769	94 303	29.39	2,772
1964	8 417	13 451	113 219	66.14	7,488
1965	9 065	13 114	118 879	32.34	3,844
1966	9 915	14 007	138 883	35.35	4,909
1967	10 724	12 265	131 535	33.45	4,400
1968	10 724	12,689	136,080	32.70	4,450
1969	11 736	14 686	172 359	42.34	7,297
1970	13 354	12 569	167 841	40.57	6,810
1971	13 233	14 053	185 967	38.93	7,240
1972	8 903	12 738	113 409	67.72	7,680
1973	12 140	16 439	199 575	46.39	9,258
1974	14 164	15 692	222 260	57.94	12,878
1975	12 950	15 760	204 100	85.74	17,500
1976	14 000	14 579	204 100	69.08	14,100
1977	15 000	16 633	249 500	86.07	21,475
1978	15 000	20 560	308 400	79.64	24,560
1979	15 000	18 827	282 400	79.64	22,490
1980	16 000	17 862	285 800	117.28	33,520
1981	16 600	18 775	311 660	115.96	36,140
1982	16 000	16 500	263 400	137.81	36,294
1983	16 000	16 100	258 000	140.46	36,315
1984	16 200	16 200	264 403	126.93	33,562
1985	18 000	18 900	340 427	111.70	38,025
1986	18 100	19 309	349 500	96.07	33,576
1987	18 200	23 400	426 400	117.00	49,889

TABLE 85B

Historical Production and Value of Potatoes — Imperial

Year	Planted Acres	Yield Per Acre (cwt)	Production (000 cwt)	Farm Value	
				Price Per cwt \$	Total (\$000)
1953.....	17,300	102.0	1,765	1.05	1,853
1954.....	15,700	81.0	1,272	2.03	2,586
1955.....	15,100	81.0	1,223	2.17	2,649
1956.....	16,500	111.0	1,831	1.50	2,747
1957.....	15,300	69.0	1,056	2.83	2,992
1958.....	15,600	76.8	1,198	1.85	2,217
1959.....	15,500	69.0	1,069	1.50	1,604
1960.....	17,000	90.0	1,530	0.80	1,224
1961.....	20,300	37.8	767	1.60	1,228
1962.....	23,000	114.0	2,622	0.80	2,098
1963.....	19,800	105.0	2,079	1.33	2,772
1964.....	20,800	120.0	2,496	3.00	7,488
1965.....	22,400	117.0	2,621	1.47	3,844
1966.....	24,500	125.0	3,062	1.60	4,909
1967.....	26,500	109.4	2,900	1.52	4,400
1968.....	26,500	113.2	3,000	1.48	4,450
1969.....	29,000	131.0	3,800	1.92	7,297
1970.....	33,000	112.1	3,700	1.84	6,810
1971.....	32,700	125.4	4,100	1.77	7,240
1972.....	22,000	113.6	2,500	3.07	7,680
1973.....	30,000	146.7	4,400	2.10	9,258
1974.....	35,000	140.0	4,900	2.63	12,878
1975.....	32,000	140.6	4,500	3.89	17,500
1976.....	34,500	130.4	4,500	3.13	14,100
1977.....	37,000	148.6	5,500	3.90	21,475
1978.....	37,000	183.8	6,800	3.61	24,560
1979.....	37,000	168.3	6,226	3.61	22,490
1980.....	39,500	159.5	6,300	5.32	33,520
1981.....	40,900	168.7	6,900	5.24	36,140
1982.....	39,500	147.0	5,807	6.25	36,294
1983.....	39,500	144.0	5,701	6.37	36,315
1984.....	40,200	145.0	5,829	5.76	33,562
1985.....	44,500	168.7	7,505	5.07	38,025
1986.....	44,700	172.4	7,706	4.36	33,576
1987.....	45,000	208.9	9,402	5.31	49,889

TABLE 86A

Historical Marketings of Major Crops — Metric

Crop Year	Wheat	Oats	Barley - tonnes -	Flax	Canola (Rapeseed)
1951-52	1 225 074	386 491	813 330	89 161	NA
1952-53	1 251 854	385 889	968 507	89 593	NA
1953-54	982 824	272 260	660 702	77 959	NA
1954-55	680 019	217 095	752 105	83 369	NA
1955-56	888 412	191 079	495 510	102 853	NA
1956-57	1 072 446	335 506	527 647	172 886	2 600
1957-58	1 133 329	298 601	427 034	73 615	4 100
1958-59	1 282 881	220 797	520 005	91 574	4 600
1959-60	1 317 799	112 365	388 757	84 893	5 000
1960-61	1 289 875	166 080	332 278	130 668	9 600
1961-62	887 949	81 767	178 691	83 420	7 800
1962-63	1 693 706	494 614	272 817	168 009	11 600
1963-64	1 379 000	222 100	186 400	202 400	14 700
1964-65	1 859 400	265 100	190 100	230 100	26 900
1965-66	1 876 700	338 600	285 200	355 400	45 500
1966-67	1 780 500	212 600	312 800	232 200	39 000
1967-68	1 762 300	238 400	269 500	120 400	41 300
1968-69	1 626 000	316 200	241 900	214 200	37 000
1969-70	1 419 800	150 300	588 000	210 700	63 800
1970-71	1 017 800	208 800	633 200	236 900	137 800
1971-72	1 556 800	199 000	1 192 800	116 700	194 800
1972-73	1 768 800	218 200	1 116 800	122 500	191 100
1973-74	1 669 600	216 800	1 002 900	156 400	145 200
1974-75	1 352 400	193 300	704 700	127 800	142 900
1975-76	1 744 300	256 000	631 500	193 300	208 800
1976-77	1 918 500	259 800	974 100	122 300	128 100
1977-78	2 517 500	283 400	1 164 700	262 800	257 000
1978-79	1 913 800	115 800	1 039 200	234 000	472 500
1979-80	2 448 000	38 600	920 500	367 900	471 800
1980-81	1 902 700	42 600	944 100	213 100	274 000
1981-82	2 811 300	84 700	1 354 200	201 900	312 800
1982-83	3 479 800	84 700	1 389 700	352 900	344 800
1983-84	3 029 400	78 800	1 232 200	284 800	304 400
1984-85	3 265 700	79 700	1 327 000	364 500	474 200
1985-86	4 836 200	100 500	1 581 900	452 800	536 500
1986-87	3 438 100	92 300	1 003 300	447 100	528 300

TABLE 86B

Historical Marketings of Major Crops — Imperial

Crop Year	Wheat	Oats	Barley - thousand bushels -	Flax	Canola (Rapeseed)
1952-53	45,997	25,022	44,482	3,527	NA
1953-54	36,112	17,654	30,345	3,069	NA
1954-55	24,986	14,077	34,543	3,282	NA
1955-56	32,643	12,390	22,758	4,049	NA
1956-57	39,405	21,755	24,234	6,806	116
1957-58	41,642	19,362	19,613	2,898	182
1958-59	47,137	14,317	23,883	3,605	204
1959-60	48,420	7,286	17,855	3,342	220
1960-61	47,394	10,769	15,261	5,144	425
1961-62	32,626	5,302	8,207	3,284	342
1962-63	62,232	32,072	12,576	6,614	511
1963-64	50,669	14,399	8,559	7,968	647
1964-65	68,323	17,191	8,730	9,059	1,188
1965-66	68,958	21,953	13,097	13,991	2,006
1966-67	65,421	13,785	14,369	9,142	1,720
1967-68	64,755	15,460	13,616	4,738	1,820
1968-69	59,744	20,506	11,110	8,431	1,682
1969-70	52,167	9,744	27,008	8,295	2,815
1970-71	37,396	13,542	29,083	9,327	6,078
1971-72	57,203	12,904	54,783	4,593	8,588
1972-73	64,992	14,149	51,295	4,823	8,426
1973-74	61,349	14,057	46,065	6,158	6,402
1974-75	49,693	12,535	32,368	5,031	6,300
1975-76	64,091	16,598	29,005	7,609	9,206
1976-77	70,494	16,843	44,738	4,814	5,647
1977-78	92,502	18,376	53,494	10,346	11,332
1978-79	70,320	7,509	47,730	9,212	20,834
1979-80	89,949	2,503	42,278	14,484	20,803
1980-81	69,912	2,762	45,659	8,389	12,081
1981-82	103,298	5,492	62,198	7,948	13,792
1982-83	127,862	5,492	63,829	13,893	15,203
1983-84	111,312	5,110	56,595	11,212	13,422
1984-85	119,995	5,168	60,949	14,350	20,908
1985-86	177,701	6,517	72,657	17,826	23,655
1986-87	126,330	5,985	46,082	17,601	23,294

TABLE 87A

Historical Quantities of Major Grain Stocks on Farms
at July 31 — Metric

Year	Wheat	Oats	Barley — tonnes —	Flax	Canola (Rapeseed)
1953	108 864	131 087	87 092	16 511	
1954	217 728	154 220	348 368	17 781	
1955	81 648	77 110	174 184	17 781	
1956	108 864	123 376	87 092	2 540	
1957	326 592	539 770	195 957	3 810	
1958	244 944	385 550	130 638	2 540	
1959	217 728	262 174	239 503	5 080	
1960	244 944	277 596	304 822	2 540	
1961	353 808	323 862	239 503	5 080	
1962	54 432	77 110	43 546	5 080	
1963	163 296	200 486	65 319	2 540	
1964	81 648	154 220	65 319	3 810	
1965	190 512	246 752	43 546	2 540	
1966	136 080	185 064	43 546	7 621	
1967	190 512	123 376	65 319	2 540	
1968	571 536	138 798	195 957	1 524	
1969	1 088 640	385 550	435 460	5 080	
1970	1 088 640	462 660	195 957	5 080	
1971	517 104	138 798	108 865	20 322	
1972	707 616	215 908	217 730	25 402	52 200
1973	136 080	123 376	174 180	2 540	1 100
1974	136 080	107 950	174 180	7 620	4 500
1975	54 431	61 688	65 317	15 240	6 800
1976	81 646	92 533	108 900	10 160	49 900
1977	571 500	154 200	87 100	12 700	4 500
1978	490 000	185 000	435 000	38 000	6 800
1979	1 115 800	123 400	544 300	66 000	65 800
1980	326 600	46 300	130 600	76 200	91 000
1981	55 000	30 000	65 000	13 000	46 000
1982	270 000	60 000	200 000	10 000	14 000
1983	110 000	110 000	375 000	45 000	10 000
1984	70 000	60 000	70 000	5 000	2 000
1985	40 000	50 000	70 000	3 000	5 000
1986	40 000	100 000	130 000	20 000	20 000
1987	53 000	80 000	160 000	50 000	10 000

TABLE 87B

Historical Quantities of Major Grain Stocks on Farms at July 31 — Imperial

Year	Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			— thousand bushels —		
1953	4,000	8,500	4,000	650	
1954	8,000	10,000	16,000	700	
1955	3,000	5,000	8,000	700	
1956	4,000	8,000	4,000	100	
1957	12,000	35,000	9,000	150	
1958	9,000	25,000	6,000	100	
1959	8,000	17,000	11,000	200	
1960	9,000	18,000	14,000	100	
1961	13,000	21,000	11,000	200	
1962	2,000	5,000	2,000	200	
1963	6,000	13,000	3,000	100	
1964	3,000	10,000	3,000	150	
1965	7,000	16,000	2,000	100	
1966	5,000	12,000	2,000	300	
1967	7,000	8,000	3,000	100	
1968	21,000	9,000	9,000	60	
1969	40,000	25,000	20,000	200	
1970	40,000	30,000	9,000	200	
1971	19,000	9,000	5,000	800	
1972	26,000	14,000	10,000	1,000	2,302
1973	5,000	8,000	8,000	100	49
1974	5,000	7,000	8,000	300	198
1975	2,000	4,000	3,000	600	300
1976	3,000	6,000	5,000	400	2,200
1977	21,000	10,000	4,000	500	198
1978	18,000	12,000	20,000	1,500	300
1979	41,000	8,000	25,000	2,600	2,901
1980	12,000	3,000	6,000	3,000	4,012
1981	2,021	1,945	2,985	512	2,028
1982	9,921	3,891	9,186	394	617
1983	4,042	7,133	17,224	1,772	441
1984	2,572	3,891	3,215	197	88
1985	1,470	3,242	3,215	118	220
1986	1,470	6,484	5,971	787	882
1987	19,474	5,187	7,349	1,968	441

TABLE 88

Historical Production Value of Horticultural Crops and Forage Seeds

Year	Potatoes	Vegetables, Fruits, Ornamentals - thousand dollars -	Total Horticulture	Forage Seeds
1953	1,853	5,190	7,043	827
1954	2,586	7,680	10,266	1,759
1955	2,649	6,595	9,244	914
1956	2,747	7,315	10,062	1,271
1957	2,992	8,150	11,142	825
1958	2,217	9,000	11,217	682
1959	1,604	9,000	10,604	1,248
1960	1,224	9,200	10,424	1,086
1961	1,228	9,090	10,318	1,254
1962	2,098	9,330	11,428	2,105
1963	2,772	10,125	12,897	1,503
1964	7,488	9,144	16,632	1,259
1965	3,844	8,861	12,705	2,162
1966	4,909	9,078	13,987	1,762
1967	4,400	10,055	14,455	1,238
1968	4,450	9,310	13,760	571
1969	7,297	9,669	16,966	1,524
1970	6,810	9,713	16,523	1,701
1971	7,240	10,632	17,872	1,684
1972	7,680	11,280	18,960	1,542
1973	9,258	11,375	20,633	5,199
1974	12,878	16,614	29,492	2,625
1975	17,500	17,468	34,968	2,031
1976	14,100	19,153	33,253	3,050
1977	21,475	18,252	39,727	3,828
1978	24,560	20,285	44,845	7,488
1979	22,490	21,786	44,276	8,312
1980	33,520	25,077	58,597	4,902
1981	36,140	26,561	62,701	6,681
1982	36,294	29,155	65,449	5,025
1983	36,315	27,187	63,502	7,371
1984	33,562	37,165	70,727	5,563
1985	38,025	35,796	73,821	6,162
1986	33,576	41,460	73,036	8,184
1987	49,889	40,903	90,792	14,093

TABLE 89

Historical Value of Livestock Production

Year	Cattle	Hogs	Sheep - thousand dollars -	Dairy - thousand dollars -	Poultry	Total
1953	29,892	14,214	615	28,289	22,600	95,610
1954	30,393	18,768	549	28,748	22,955	101,413
1955	34,860	18,392	556	29,689	22,538	106,035
1956	32,384	16,560	510	29,641	24,175	103,270
1957	35,350	20,915	577	29,473	23,000	109,315
1958	51,552	30,143	608	32,307	25,362	139,972
1959	49,764	24,465	559	31,430	23,487	129,705
1960	50,142	17,820	614	30,959	22,031	121,566
1961	51,816	25,662	701	30,952	23,393	132,524
1962	53,048	19,614	609	30,962	21,907	126,140
1963	56,518	23,688	628	30,730	23,860	135,424
1964	54,120	25,740	629	29,986	23,856	134,331
1965	54,929	29,760	552	30,425	26,843	142,509
1966	66,341	38,324	500	29,999	30,179	165,343
1967	66,220	37,048	455	32,699	25,975	162,397
1968	64,944	35,010	400	33,775	28,522	162,651
1969	85,188	58,862	290	32,797	33,271	210,408
1970	92,303	63,826	183	32,063	33,294	221,669
1971	98,978	46,892	391	32,119	27,277	205,657
1972	112,880	71,940	470	35,980	31,879	253,149
1973	155,880	106,190	604	41,731	50,535	354,940
1974	147,840	79,402	621	57,592	52,902	338,357
1975	122,208	89,610	546	66,796	46,413	325,573
1976	113,004	87,591	415	70,360	58,455	329,825
1977	129,168	85,002	416	71,455	58,723	344,764
1978	180,780	110,000	596	67,780	61,437	420,593
1979	258,060	131,075	696	73,176	73,186	536,193
1980	248,880	118,064	871	85,496	80,171	533,482
1981	191,265	138,208	782	96,938	96,663	523,856
1982	188,692	170,408	941	106,036	95,872	561,949
1983	203,148	166,750	916	108,734	103,845	583,393
1984	240,500	191,261	929	116,172	112,550	661,412
1985	261,151	196,840	1,528	113,305	112,057	684,887
1986	296,215	254,533	2,085	117,410	111,869	755,461
1987	243,390	264,000	1,828	132,391	114,805	756,414

TABLE 90

Historical Production and Value of Cattle

Year	Commercial Marketings	Local Slaugh- terings	Inventory Change - thousand animals -	Inshipments (minus)	Total	Value Per Animal \$	Total Value (\$000)
1953	257	16	20	11	282	106	29,892
1954	281	25	13	12	307	99	30,393
1955	268	22	54	12	332	105	34,860
1956	292	26	41	7	352	92	32,384
1957	346	32	-22	6	350	101	35,350
1958	356	26	-12	12	358	144	51,552
1959	300	23	45	20	348	143	49,764
1960	317	22	53	26	366	137	50,142
1961	402	26	-16	31	381	136	51,816
1962	313	23	73	60	349	152	53,048
1963	347	24	66	70	367	154	56,518
1964	399	24	49	62	410	132	54,120
1965	528	28	-62	81	413	133	54,929
1966	508	28	-42	87	407	163	66,341
1967	500	28	-52	91	385	172	66,220
1968	468	28	-57	70	369	176	64,944
1969	392	27	84	131	372	229	85,188
1970	416	26	45	104	383	241	92,303
1971	417	26	28	62	409	242	98,978
1972	432	26	42	85	415	272	112,880
1973	429	28	73	97	433	360	155,880
1974	398	26	71	47	448	330	147,840
1975	512	34	-38	52	456	268	122,208
1976	567	31	-40	120	438	258	113,004
1977	639	26	-58	139	468	276	129,168
1978	523	23	-91	62	393	460	180,780
1979	444	21	-43	31	391	660	258,060
1980	444	22	-7	51	408	610	248,880
1981	367	20	-30	46	311	615	191,265
1982	435	15	-80	48	322	586	188,692
1983	378	20	-20	36	342	594	203,148
1984	411	18	-33	28	368	653	240,500
1985	434	9	-27	23	393	664	261,151
1986	459	10	0	25	444	667	296,215
1987	420	10	-28	21	380	640	243,390

TABLE 91 Historical Commercial Marketings of Cattle — Manitoba Origin

Year	Under 1 Year		1 Year and Over		Total		
	Animals (000)	Value (\$000)	Animals (000)	Value (\$000)	Animals (000)	Value Each \$	Value (\$000)
1953	82	3,858	175	23,261	257	106	27,119
1954	88	3,785	193	23,994	281	99	27,779
1955	82	3,832	186	24,362	268	105	28,194
1956	89	3,810	203	23,114	292	92	26,924
1957	98	4,306	248	30,533	346	101	34,839
1958	101	7,845	255	43,410	356	144	51,255
1959	89	6,675	211	36,162	300	143	42,837
1960	87	6,197	230	37,387	317	137	43,584
1961	111	8,721	291	46,143	402	136	54,864
1962	93	7,921	220	39,778	313	152	47,699
1963	90	6,776	257	46,581	347	154	53,357
1964	109	6,016	290	46,649	399	132	52,665
1965	165	11,068	363	59,234	528	133	70,302
1966	156	13,081	352	69,811	508	163	82,892
1967	165	15,135	335	70,886	500	172	86,021
1968	147	13,065	321	69,510	468	176	82,575
1969	94	10,682	298	79,123	392	229	89,805
1970	97	13,738	319	86,454	416	241	100,192
1971	109	15,674	308	85,169	417	242	100,843
1972	108	16,621	324	100,766	432	272	117,387
1973	105	24,044	324	130,370	429	360	154,414
1974	73	11,460	325	119,880	398	330	131,340
1975	91	9,874	421	127,342	512	268	137,216
1976	102	11,901	465	134,385	567	258	146,286
1977	122	15,494	517	160,870	639	276	176,364
1978	76	20,748	447	219,832	523	460	240,580
1979	73	32,131	371	260,909	444	660	293,040
1980	70	25,054	374	245,786	444	610	270,840
1981	47	14,095	320	211,610	367	615	225,705
1982	68	21,796	367	233,114	435	586	254,910
1983	72	35,576	306	188,956	378	594	224,532
1984	42	14,322	369	254,061	411	653	268,383
1985	56	19,712	378	268,464	434	664	288,176
1986	116	49,519	343	256,634	459	667	306,153
1987	127	72,340	293	196,460	420	640	268,800

TABLE 92

Historical Production and Value of Hogs

Year	Commercial Marketings	Local Slaugh- terings - thousand animals -	Inventory Change	Total	Value Per Animal (\$)	Total Value (\$000)
1953	321	69	-81	309	46	14,214
1954	336	70	-15	391	48	18,768
1955	434	84	-34	484	38	18,392
1956	388	70	-44	414	40	16,560
1957	332	64	49	445	47	20,915
1958	464	54	183	701	43	30,143
1959	654	87	-42	699	35	24,465
1960	506	76	-87	495	36	17,820
1961	519	66	26	611	42	25,662
1962	467	60	-60	467	42	19,614
1963	437	50	77	564	42	23,688
1964	582	52	26	660	39	25,740
1965	579	49	-8	620	48	29,760
1966	595	47	95	737	52	38,324
1967	766	56	20	842	44	37,048
1968	751	53	-26	778	45	35,010
1969	778	50	225	1,053	54	56,862
1970	1,093	50	215	1,358	47	63,826
1971	1,352	57	-175	1,234	38	46,892
1972	1,238	50	20	1,308	55	71,940
1973	1,277	55	-37	1,295	82	106,190
1974	1,270	53	-250	1,073	74	79,402
1975	886	52	-68	870	103	89,610
1976	835	46	22	903	97	87,591
1977	852	37	25	914	93	85,002
1978	895	40	65	1,000	110	110,000
1979	1,084	36	105	1,225	107	131,075
1980	1,250	30	-24	1,256	94	118,064
1981	1,220	23	-9	1,234	112	138,208
1982	1,229	24	0	1,253	136	170,408
1983	1,358	20	72	1,450	115	166,750
1984	1,583	26	40	1,649	116	191,261
1985	1,777	20	-55	1,742	113	196,846
1986	1,743	21	41	1,805	141	254,533
1987	1,825	21	67	1,913	138	264,000

TABLE 93 Historical Commercial Hog Marketings — Manitoba Origin

Year	Animals (000)	Value Each \$	Total Value (\$000)
1953	321	46	14,766
1954	336	48	16,128
1955	434	38	16,492
1956	388	40	15,520
1957	332	47	15,604
1958	464	43	19,952
1959	654	35	22,890
1960	506	36	18,216
1961	519	42	21,798
1962	467	42	19,614
1963	437	42	18,354
1964	582	39	22,698
1965	579	48	27,792
1966	595	52	30,940
1967	766	44	33,704
1968	751	45	33,795
1969	778	54	42,012
1970	1,093	47	51,371
1971	1,352	38	51,376
1972	1,238	55	68,090
1973	1,277	82	104,714
1974	1,270	74	93,980
1975	886	103	91,258
1976	835	97	80,995
1977	852	93	79,236
1978	895	110	98,450
1979	1,084	107	115,988
1980	1,250	94	117,500
1981	1,220	112	136,640
1982	1,229	136	167,144
1983	1,358	115	156,170
1984	1,583	116	183,628
1985	1,777	113	200,756
1986	1,743	141	245,763
1987	1,825	138	251,850

TABLE 94

Historical Sheep and Wool Production and Value

Year	Sheep and Lamb Marketings		Wool		Value (\$000)	Total Value (\$000)
	Animals (000)	Value (\$000)	Kilograms Shorn (000)	Pounds Shorn (000)		
1953	33	525	117	258	90	615
1954	34	462	120	264	87	549
1955	37	480	111	244	76	556
1956	33	425	117	259	85	510
1957	34	496	102	224	81	577
1958	34	507	115	254	101	608
1959	32	455	114	252	104	559
1960	37	502	112	247	112	614
1961	42	561	128	283	140	701
1962	36	492	116	256	117	609
1963	34	516	107	236	112	628
1964	33	528	96	211	101	629
1965	28	439	85	188	113	552
1966	24	422	74	163	78	500
1967	23	384	74	163	71	455
1968	16	337	62	137	63	400
1969	10	240	58	128	50	290
1970	6	126	68	149	57	183
1971	17	357	68	150	34	391
1972	19	437	60	132	33	470
1973	18	507	63	138	97	604
1974	18	569	65	142	52	621
1975	15	520	44	98	26	546
1976	11	374	49	108	41	415
1977	10	388	34	75	28	416
1978	11	570	27	60	26	596
1979	13	655	29	61	41	696
1980	17	806	45	100	65	871
1981	18	700	45	99	62	762
1982	22	883	62	135	58	941
1983	20	874	68	149	63	937
1984	21	895	61	135	75	970
1985	20	1,494	53	117	51	1,545
1986	23	2,044	39	85	41	2,085
1987	21	1,780	37	81	48	1,828

TABLE 95A

Historical Dairy Production and Value — Metric

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (million kg)	Total Farm Value (\$000)	Creamery Butter (000 kg)	Cheddar Cheese (000 kg)	Ice Cream (000 litres)
1953	480	28,289	11 336	544	8 101
1954	488	28,748	11 345	557	7 755
1955	501	39,689	11 348	473	8 110
1956	489	29,641	10 596	485	7 569
1957	484	29,473	10 683	573	7 683
1958	511	32,307	12 092	314	7 965
1959	496	31,430	11 626	175	8 587
1960	485	30,959	11 239	221	9 547
1961	482	30,952	11 466	250	10 342
1962	484	30,962	11 614	286	10 760
1963	476	30,730	11 295	371	12 297
1964	459	29,986	10 688	428	13 333
1965	433	30,425	9 891	519	13 397
1966	401	29,999	8 559	654	13 220
1967	386	32,699	7 743	961	14 365
1968	390	33,775	8 009	909	14 356
1969	386	32,797	7 765	1 467	14 734
1970	374	32,063	7 100	1 919	15 284
1971	361	32,119	6 225	2 642	14 911
1972	369	35,980	5 906	4 324	15 465
1973	366	41,731	5 446	4 424	16 020
1974	346	57,561	4 611	4 248	17 556
1975	333	66,796	4 745	4 627	19 266
1976	329	70,360	4 055	4 616	20 448
1977	328	71,455	4 131	4 885	19 280
1978	291	67,780	4 276	5 122	19 752
1979	288	73,176	4 205	6 011	19 992
1980	297	85,606	4 199	6 857	21 338
1981	298	96,938	3 774	6 465	10 976
1982	303	106,036	4 266	4 788	10 540
1983	302	108,734	3 857	6 702	10 358
1984	307	116,172	3 819	6 906	9 837
1985	299	113,305	3 746	6 465	9 450
1986	291	117,410	3 859	5 859	8 638
1987	307	121,317	4 150	6 339	8 583

TABLE 95B

Historical Dairy Production and Value — Imperial

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (million lb)	Total Farm Value (\$000)	Creamery Butter (000 lb)	Cheddar Cheese (000 lb)	Ice Cream (000 gals)
1953	1,059	28,289	24,992	1,199	1,782
1954	1,075	28,748	25,012	1,227	1,706
1955	1,104	39,689	25,018	1,043	1,784
1956	1,079	29,641	23,360	1,069	1,665
1957	1,066	29,473	23,552	1,263	1,690
1958	1,127	32,307	26,657	693	1,752
1959	1,093	31,430	25,630	385	1,889
1960	1,070	30,959	24,778	487	2,100
1961	1,062	30,952	25,278	551	2,275
1962	1,066	30,962	25,605	631	2,367
1963	1,049	30,730	24,901	817	2,705
1964	1,011	29,986	23,563	944	2,933
1965	955	30,425	21,806	1,145	2,947
1966	885	29,999	18,868	1,441	2,908
1967	851	32,699	17,071	2,118	3,160
1968	860	33,775	17,656	2,004	3,158
1969	851	32,797	17,119	3,235	3,241
1970	825	32,063	15,652	4,230	3,362
1971	796	32,119	13,723	5,824	3,280
1972	813	35,980	13,020	9,532	3,402
1973	805	41,731	12,006	9,753	3,526
1974	763	57,592	10,165	9,366	3,862
1975	735	66,796	10,462	10,201	4,238
1976	725	70,360	8,940	10,176	4,410
1977	722	71,455	9,107	10,769	4,242
1978	642	67,780	9,427	11,290	4,345
1979	635	73,176	9,270	13,252	4,398
1980	654	85,606	9,257	15,117	4,694
1981	655	96,938	8,320	14,253	2,338
1982	666	106,036	9,405	10,556	2,245
1983	663	108,734	8,502	14,776	2,278
1984	675	116,172	8,419	15,225	2,164
1985	658	113,305	8,258	14,253	2,079
1986	642	117,410	8,507	12,917	1,900
1987	677	121,317	9,149	13,975	1,888

TABLE 96

Historical Poultry Production Value

Year	Eggs	Meat - thousand dollars -	Total
1953	12,227	10,373	22,600
1954	10,565	12,390	22,955
1955	11,290	11,248	22,538
1956	11,573	12,602	24,175
1957	10,882	12,118	23,000
1958	11,327	14,035	25,362
1959	10,160	13,327	23,487
1960	9,990	12,041	22,031
1961	10,079	13,314	23,393
1962	10,467	11,440	21,907
1963	12,119	11,741	23,860
1964	11,519	12,337	23,856
1965	13,429	13,414	26,843
1966	15,877	14,302	30,179
1967	14,378	11,597	25,975
1968	16,624	11,898	28,522
1969	19,944	13,441	33,385
1970	18,679	14,615	33,294
1971	14,176	13,101	27,277
1972	15,931	15,948	31,879
1973	26,992	23,543	50,535
1974	28,280	25,047	53,327
1975	25,774	20,452	46,226
1976	30,693	27,782	58,455
1977	30,232	28,491	58,723
1978	31,805	29,632	61,437
1979	34,978	38,208	73,186
1980	40,069	40,102	80,171
1981	47,940	47,608	95,548
1982	46,054	57,525	103,579
1983	47,375	56,470	103,845
1984	51,808	60,742	112,550
1985	51,323	60,734	112,057
1986	50,471	61,398*	111,869
1987	51,375	63,430	114,805

*Includes value for "started pullets" commencing in 1986

TABLE 97A

**Historical Livestock Prices by Grade,
St. Boniface Stockyards — Metric**

Year	- LIVE CATTLE -					All Grades		HOGS	SHEEP
	Good Slaughter Steers (A3)	Good Slaughter Cows (D1,D2)	Good Feeder Steers (+ 350 kg)	Good and Choice Veal	- cents per kilogram -	Over 227 kg	Calves Only	Index 100 Grades Dressed	All Live Sheep & Lambs
1953.....	40.0	25.3	33.1	50.0		30.6	38.9	60.4	38.3
1954.....	38.4	23.5	33.4	48.2		29.0	37.5	61.4	34.3
1955.....	40.7	26.1	35.4	51.4		30.8	40.7	48.6	33.8
1956.....	39.5	24.1	35.7	51.2		29.3	38.0	51.6	32.8
1957.....	39.2	26.2	37.5	52.1		31.4	40.3	62.2	35.9
1958.....	48.4	36.6	47.6	62.7		42.6	55.2	55.6	37.6
1959.....	52.6	37.6	50.5	70.0		44.4	53.8	47.0	35.7
1960.....	47.8	34.2	46.3	67.1		40.4	51.9	47.7	34.8
1961.....	47.2	34.2	47.3	66.9		40.9	53.7	54.8	33.0
1962.....	54.8	37.9	53.8	73.5		45.9	60.8	56.6	35.6
1963.....	50.7	37.7	51.2	71.5		44.5	54.1	54.7	37.5
1964.....	48.2	34.0	46.0	67.7		39.7	46.4	51.9	38.8
1965.....	51.3	32.6	48.6	65.7		40.0	47.1	67.6	42.2
1966.....	55.6	41.6	56.3	75.7		47.2	57.3	73.7	44.1
1967.....	59.3	44.0	58.5	85.7		50.0	60.3	60.7	41.6
1968.....	59.2	43.1	59.2	83.6		51.2	62.4	62.0	47.3
1969.....	64.2	52.8	70.6	92.7		60.4	76.3	78.2	53.2
1970.....	66.6	51.6	72.8	103.0		62.5	79.0	64.4	59.1
1971.....	71.4	50.9	74.4	103.8		63.4	81.2	50.4	54.6
1972.....	77.3	58.3	85.5	117.5		70.2	91.4	75.0	61.3
1973.....	96.0	77.3	103.1	146.5		85.8	112.2	113.1	74.5
1974.....	104.5	59.8	89.6	155.0		81.5	90.9	101.7	99.2
1975.....	89.5	46.9	78.0	97.5		63.1	58.8	137.9	108.5
1976.....	78.1	50.5	79.4	103.7		61.0	63.4	130.1	110.4
1977.....	80.4	55.3	83.0	97.8		65.9	66.6	125.2	140.3
1978.....	118.6	88.0	129.3	163.2		101.9	123.3	149.5	130.3
1979.....	153.5	125.4	177.4	243.4		142.5	186.5	141.4	182.8
1980.....	151.7	114.7	167.6	243.7		135.2	176.9	124.9	146.5
1981.....	154.9	106.0	159.9	238.9		130.8	161.5	148.6	120.9
1982.....	153.3	102.3	158.3	238.0		124.3	160.0	177.7	101.3
1983.....	149.5	104.3	159.6	237.3		119.5	170.2	151.0	110.8
1984.....	162.8	106.9	165.3	241.1		126.5	173.4	154.5	112.9
1985.....	156.8	107.5	165.8	220.7		121.0	167.4	146.1	123.5
1986.....	157.8	110.4	167.6	218.2		122.9	178.7	178.8	143.8
1987.....	165.0	122.1	187.4*	256.5		138.6	219.9	172.3	174.3

* Commencing in 1987: + 400 kg (+ 900 lb).

TABLE 97B

Historical Livestock Prices by Grade, St. Boniface Stockyards — Imperial

Year	- LIVE CATTLE -				All Grades		HOGS Index 100 Grades Dressed	SHEEP All Live Sheep & Lambs
	Good Slaughter Steers (A3)	Good Slaughter Cows (D1,D2)	Good Feeder Steers (+ 800 lb)	Good and Choice Veal	Over 500 lbs	Calves Only		
					- dollars per 100 pounds -			
1953.....	18.14	11.48	15.01	22.68	13.87	17.64	27.40	17.39
1954.....	17.40	10.95	16.20	23.20	13.30	17.25	23.40	14.90
1955.....	18.45	11.85	16.04	23.30	13.95	18.45	22.05	15.35
1956.....	17.91	10.64	15.15	21.85	13.17	16.99	27.85	15.57
1957.....	17.78	11.90	17.00	23.65	14.23	18.26	28.20	16.28
1958.....	21.95	16.60	21.60	28.45	19.31	25.02	25.20	17.06
1959.....	23.85	17.05	22.90	31.75	20.12	24.39	21.30	16.19
1960.....	21.70	15.50	21.00	30.45	18.32	23.56	21.65	15.78
1961.....	21.40	15.50	21.45	30.35	18.55	24.35	24.85	14.95
1962.....	24.85	17.20	24.40	33.35	20.80	27.60	25.65	16.15
1963.....	23.00	17.10	23.20	32.45	20.20	24.55	24.80	17.00
1964.....	21.85	15.40	20.85	30.70	18.00	21.05	23.55	17.60
1965.....	23.25	14.80	22.05	29.80	18.15	21.35	30.65	19.15
1966.....	25.20	18.85	25.55	34.35	21.40	26.00	33.45	20.00
1967.....	26.88	19.95	26.55	38.85	22.70	27.35	27.55	18.85
1968.....	26.85	19.55	26.85	37.90	23.20	28.30	28.10	21.45
1969.....	29.10	23.95	32.00	42.05	27.40	34.60	35.45	24.15
1970.....	30.20	23.42	33.00	46.70	28.35	35.85	29.20	26.80
1971.....	32.40	23.10	33.75	47.10	28.75	36.85	22.85	24.75
1972.....	35.07	26.45	38.80	53.30	31.86	41.44	34.00	27.80
1973.....	43.53	35.06	46.76	66.44	38.91	50.90	51.31	39.93
1974.....	47.41	27.12	40.62	70.30	36.97	41.22	46.12	45.00
1975.....	40.58	21.27	35.37	44.24	28.63	26.66	62.55	49.22
1976.....	35.43	22.92	36.02	47.04	27.67	28.74	59.03	50.10
1977.....	36.47	25.10	37.66	44.37	29.88	30.23	56.78	63.64
1978.....	53.78	39.93	58.67	74.04	46.21	55.91	67.83	59.12
1979.....	69.62	56.88	80.49	110.39	64.62	84.58	64.15	82.94
1980.....	68.80	52.05	76.04	110.56	61.33	80.25	56.67	66.44
1981.....	70.26	48.10	72.55	108.37	59.31	73.26	67.40	54.82
1982.....	69.54	46.42	71.81	107.97	56.38	72.43	80.61	45.95
1983.....	67.83	47.29	72.38	107.65	54.21	77.18	68.49	50.27
1984.....	73.83	48.49	74.98	109.38	57.39	78.65	70.10	51.19
1985.....	71.12	48.75	75.21	100.12	54.89	75.92	66.25	56.04
1986.....	71.58	50.07	76.03	98.96	55.77	81.06	81.10	65.23
1987.....	74.84	55.39	85.01*	116.36	62.87	99.76	78.16	79.04

* Commencing in 1987: + 400 kg (+ 900 lb).

Table 98

Historical Numbers of Livestock on Farms — July 1

Year	Milk Cows Only	Total Cattle & Calves	Hogs	Sheep	Hens and Chickens*	Turkeys
- thousand animals or birds, June 1 -						
1953	219	772	265	75	6,330	370
1954	220	792	320	76	6,715	510
1955	221	819	351	76	5,940	550
1956	223	872	311	73	5,990	664
1957	216	885	314	72	6,350	772
1958	209	868	453	78	6,980	932
1959	202	892	503	74	7,000	1,214
1960	198	931	371	76	6,400	880
1961	196	996	432	81	6,267	1,145
1962	185	982	334	76	5,465	970
1963	175	1,066	391	73	5,700	970
1964	172	1,152	460	72	6,270	885
1965	163	1,184	421	61	5,820	1,000
1966	150	1,151	499	51	5,844	1,091
1967	137	1,099	589	45	6,330	925
1968	129	1,029	547	38	6,380	870
1969	121	1,006	615	37	7,340	825
1970	116	1,104	907	40	8,540	900
1971	110	1,138	943	42	7,613	1,033
1972	105	1,210	893	36	7,530	1,000
1973	101	1,247	956	33	4,310	NA
1974	99	1,386	826	26	4,095	NA
1975	96	1,458	582	23	3,787	NA
1976	92	1,411	632	21	3,470	NA
1977	91	1,373	650	19	NA	NA
1978	88	1,262	683	20	NA	NA
1979	80	1,227	804	26	NA	NA
1980	80	1,186	823	28	NA	NA
1981	83	1,162	865	35	6,155	697
1982	80	1,125	865	38	NA	NA
1983	79	1,063	948	39	NA	NA
1984	78	985	1,060	37	NA	NA
1985	78	1,070	1,170	32	NA	NA
1986*	65	1,115	1,071	25	6,298	730
1987	65	1,070	1,148	23	NA	NA

* Hens and pullets only since 1973.

OTHER PRODUCTS

TABLE 99 **Historical Production Value of Other Farm Products**

Year	Honey ¹	Fur ²	Forest	Total
	- thousand dollars -			
1953	657	2,401	490	3,548
1954	630	3,201	463	4,294
1955	870	3,848	437	5,155
1956	896	3,622	411	4,929
1957	869	3,493	385	4,747
1958	812	3,308	359	4,479
1959	820	3,514	333	4,667
1960	873	3,078	307	4,258
1961	987	2,798	267	4,052
1962	773	3,097	226	4,096
1963	1,117	3,115	186	4,418
1964	1,017	3,111	145	4,273
1965	1,112	4,363	105	5,580
1966	1,379	3,379	117	4,875
1967	1,586	3,102	164	4,852
1968	685	2,827	200	3,712
1969	1,469	2,322	232	4,023
1970	1,520	1,348	250	3,118
1971	1,355	1,088	279	2,722
1972	3,010	1,081	352	4,443
1973	3,874	1,200	400	5,474
1974	3,517	976	378	4,871
1975	3,176	989	362	4,527
1976	4,798	1,320	482	6,600
1977	5,217	1,600	262	7,079
1978	8,019	2,614	258	10,891
1979	9,264	2,568	298	12,130
1980	9,278	2,157	280	11,715
1981	10,748	2,119	1,083	13,950
1982	10,963	1,839	1,054	13,856
1983	9,898	1,878	1,157	12,933
1984	9,753	1,582	1,137	12,472
1985	10,560	6,951	1,195	12,852
1986	13,127	6,867	1,322	21,316
1987	14,204	10,558	1,491	26,253

¹Includes beeswax, leafcutter bees and alfalfa seed production starting in 1986.

²Includes wildlife pelts starting in 1985.

RESOURCES

TABLE 100A Census Land Use, Manitoba Farms, 1941-1986 — Metric

Year	Crops	- Improved Land - - thousand hectares -				Unimproved Land	Total Land
		Pasture	Fallow	Other	Total		
1941	2 561	185	1 120	112	3 978	2 858	6 836
1946	2 608	208	1 036	103	3 955	2 791	6 746
1951	2 968	237	1 019	131	4 355	2 820	7 175
1956	3 110	241	1 144	140	4 635	2 622	7 257
1961	3 112	291	1 307	132	4 842	2 511	7 353
1966	3 518	312	1 080	127	5 037	2 686	7 723
1971	3 691	296	1 074	120	5 181	2 511	7 692
1976	3 848	311	934	124	5 217	2 483	7 700
1981	4 420	353	598	133	5 504	2 112	7 616
1986	4 519	679	509	100	5 403	2 337	7 740

TABLE 101A Census Farm Numbers and Sizes, 1941-1986 — Metric

Year	Farms	Average Size	
		Total Hectares	Improved Hectares
1941	58,024	118	68
1946	54,448	124	72
1951	52,383	137	83
1956	49,201	147	94
1961	43,306	170	112
1966	39,747	194	127
1971	34,981	220	148
1976	32,104	240	162
1981	29,442	259	187
1986	27,336	283	198

TABLE 102A Census Farm Area Land Use by Tenure, 1941-1986 — Metric

Year	Area Operated By:				Total Area	
	Owners	Renters	Owners- Renters	Managers	Owned or Managed	Rented
			- thousand hectares -			
1941	3 744	1 386	1 637	69	4 698	2 138
1946	4 062	973	1 618	94	5 056	1 691
1951	4 264	722	2 019	170	5 580	1 595
1956	4 092	655	2 335	175	5 592	1 665
1961	3 722	552	2 843	236	5 551	1 802
1966	3 878	379	3 228	238	5 938	1 785
1971	3 581	371	3 740	NA	5 691	2 001
1976	3 283	479	3 938	NA	5 500	2 200
1981	2 668	579	4 369	NA	5 098	2 518
1986	NA	NA	NA	NA	4 871	2 869

**TABLE 100B Census Farm Area and Land Use, Manitoba Farms,
1941-1986 — Imperial**

Year	Crops	- Improved Land -				Unimproved Land	Total Land
		Pasture	Fallow	Other	Total		
					- thousand acres -		
1941	6,328	456	2,767	276	9,829	7,062	16,891
1946	6,445	514	2,560	254	9,773	6,898	16,671
1951	7,335	585	2,519	323	10,762	6,968	17,730
1956	7,686	595	2,828	345	11,454	6,478	17,932
1961	7,689	720	3,230	325	11,964	6,206	18,170
1966	8,694	770	2,669	313	12,446	6,638	19,084
1971	9,122	731	2,655	296	12,804	6,204	19,008
1976	9,508	769	2,308	306	12,891	6,135	19,026
1981	10,923	871	1,479	328	13,601	5,218	18,819
1986	11,168	679	1,258	246	13,351	5,775	19,127

TABLE 101B Census Farm Numbers and Sizes, 1941-1986 — Imperial

Year	Farms	Average Size	
		Total Acres	Improved Acres
1941	58,024	291	169
1946	54,448	306	179
1951	52,383	338	205
1956	49,201	364	233
1961	43,306	420	276
1966	39,747	480	313
1971	34,981	543	366
1976	32,104	593	402
1981	29,442	639	462
1986	27,336	700	488

**TABLE 102B Census Farm Area and Land Use by Tenure,
1941-1986 — Imperial**

Year	Area Operated By:				Total Area	
	Owners	Renters	Owners- Renters	Managers	Owned or Managed	Rented
						- thousand acres -
1941	9,252	3,424	4,044	171	11,609	5,283
1946	10,038	2,404	3,997	232	12,494	4,178
1951	10,536	1,784	4,989	421	13,788	3,942
1956	10,111	1,618	5,770	433	13,818	4,113
1961	9,196	1,365	7,026	583	13,716	4,454
1966	9,584	936	7,977	587	14,673	4,411
1971	8,849	917	9,242	NA	14,063	4,945
1976	8,112	1,183	9,731	NA	13,591	5,435
1981	6,592	1,430	10,797	NA	12,596	6,223
1986	NA	NA	NA	NA	12,038	7,089

TABLE 103

Census Farm and Total Population, 1941-1986

Year	Farms	Farm Population	Manitoba Population	Farm Percent of Total
1941	58,024	249,599	729,744	34.2
1946	54,448	224,919	726,923	30.9
1951	52,383	219,233	776,541	28.2
1956	49,201	202,163	850,040	23.8
1961	43,306	172,946	921,686	18.8
1966	39,747	161,662	963,066	16.8
1971	34,981	131,202	988,247	13.3
1976	32,104	114,115	1,021,506	11.2
1981	29,442	98,375	1,026,241	9.6
1986	27,336	84,690	1,071,232	7.9

TABLE 104

Dicennial Census Farm Labour Force, 1941-1981

Year	Male	Female	Total
1941	90,774	1,505	92,279
1951	70,109	3,586	73,695
1961	51,700	7,601	59,301
1971	48,445	39,040	87,485
1981	38,205	30,785	68,990

TABLE 105

Census Capital Investment Values, 1941-1986

Year	Land and Buildings	Machinery and Equipment - million dollars -	Livestock	Total	Per Farm \$
1941	229	59	51	339	5,800
1946	339	94	71	504	9,300
1951	529	232	156	917	17,500
1956	604	244	110	958	19,500
1961	720	272	162	1,154	26,600
1966	1,178	380	199	1,757	44,200
1971	1,374	412	270	2,056	58,800
1976	3,208	960	367	4,535	141,300
1981	7,836	1,823	792	10,451	355,000
1986	6,584	2,231	739	9,555	349,500

TABLE 106

**Historical Quantities of Grain Used for Feed
and Seed on Manitoba Farms**
(includes waste and dockage)

Crop Year	Wheat	Oats	Barley	Wheat	Oats	Barley
	- 000 tonnes -	- 000 tonnes -	- 000 tonnes -	- million bushels -	- million bushels -	- million bushels -
1952 - 1953	218	540	544	8	35	25
1953 - 1954	218	524	414	8	34	19
1954 - 1955	245	416	370	9	27	17
1955 - 1956	218	540	457	8	35	21
1956 - 1957	218	601	283	8	39	13
1957 - 1958	218	601	348	8	39	16
1958 - 1959	327	679	327	12	44	15
1959 - 1960	342	643	264	12.6	41.7	12.1
1960 - 1961	398	652	256	14.6	42.3	11.8
1961 - 1962	337	535	214	12.4	34.7	9.8
1962 - 1963	374	1 202	161	13.7	77.9	7.4
1963 - 1964	365	781	161	13.4	50.6	7.4
1964 - 1965	345	768	180	12.7	49.8	8.3
1965 - 1966	328	865	195	12.1	56.1	9.0
1966 - 1967	315	836	276	11.6	54.2	12.7
1967 - 1968	307	764	291	11.3	49.5	13.4
1968 - 1969	334	686	455	12.3	44.5	20.9
1969 - 1970	322	837	522	11.8	54.3	24.0
1970 - 1971	384	932	608	14.1	60.4	27.9
1971 - 1972	430	896	745	15.8	58.1	34.2
1972 - 1973	517	723	778	19.0	46.9	35.7
1973 - 1974	426	770	804	15.7	49.9	36.9
1974 - 1975	336	516	558	12.3	33.5	25.6
1975 - 1976	351	484	434	12.9	31.4	19.9
1976 - 1977	394	620	507	14.5	40.2	23.3
1977 - 1978	313	580	534	11.5	37.6	24.5
1978 - 1979	290	578	703	10.7	37.5	32.3
1979 - 1980	382	346	756	14.0	22.4	34.7
1980 - 1981	274	251	640	10.1	16.3	29.4
1981 - 1982	300	348	841	11.0	22.6	38.6
1982 - 1983	381	389	808	14.0	25.2	37.1
1983 - 1984	421	372	662	15.5	24.1	30.4
1984 - 1985	507	362	611	18.6	23.5	28.1
1985 - 1986	390	343	884	14.3	22.2	40.6
1986 - 1987	529	391	808	19.4	25.4	37.1

TABLE 107

Historical Numbers of Machinery on Farms, 1951-1986

Year	Tractors	Trucks	Combines	Swathers	Balers
1951	50,984	21,163	15,268	-	-
1956	59,265	28,556	21,425	-	-
1961	61,463	31,806	23,662	20,408	8,573
1966	65,552	36,689	24,815	23,530	12,712
1971	64,587	41,306	23,325	23,833	13,472
1976	67,077	49,844	23,467	23,843	14,173
1981	67,342	54,070	22,631	24,291	15,694
1986	73,945	57,502	21,946	24,528	15,317

TABLE 108 Historical Sales of Selected Farm Machinery in Manitoba, 1953-87

Year	Tractors	Combines	Swathers	Balers
1953	3,663	1,899	1,291	-
1954	2,250	669	571	-
1955	2,216	892	679	-
1956	2,189	1,101	1,443	-
1957	2,015	877	861	963
1958	2,263	739	-	1,157
1959	2,486	1,009	768	1,547
1960	2,461	1,079	783	1,518
1961	1,803	496	743	1,043
1962	2,298	1,228	1,221	1,807
1963	2,735	1,378	1,328	1,187
1964	3,221	1,572	2,231	1,399
1965	3,037	1,900	2,339	1,212
1966	3,692	1,702	1,709	1,021
1967	2,973	1,454	1,838	642
1968	1,949	1,223	1,763	562
1969	1,610	642	1,100	537
1970	1,482	393	606	489
1971	1,138	482	772	485
1972	1,583	506	958	595
1973	2,371	856	1,462	779
1974	2,622	675	939	731
1975	2,823	856	1,471	1,007
1976	2,730	604	1,515	1,163
1977	2,190	1,012	1,131	850
1978	2,485	695	NA	297
1979	2,610	1,018	1,191	817
1980	2,251	781	1,249	810
1981	2,132	1,056	1,328	645
1982	1,787	636	977	465
1983	1,453	578	740	481
1984	1,550	580	787	383
1985	1,641	809	867	419
1986	1,378	591	430	529
1987	1,005	245	570	464

TABLE 109

Historical Sales of Fertilizers, 1960-1987

Year Ending June 30	Other			Other		
	Materials	Materials	Total	Materials	Materials	Total
	tonnes			tons		
1960	19 602	777	20 379	21,607	857	22,464
1961	26 022	1 130	27 152	28,684	1,246	29,930
1962	30 004	1 802	31 806	33,073	1,986	35,059
1963	41 376	1 376	42 752	45,608	1,517	47,125
1964	51 918	2 377	54 295	57,229	2,620	59,849
1965	65 104	2 420	67 525	71,764	2,668	74,432
1966	135 560	3 590	139 150	149,427	3,957	153,384
1967	160 425	3 902	164 327	176,835	4,301	181,136
1968	216 233	3 547	219 775	238,352	3,910	242,262
1969	124 874	3 888	128 763	137,648	4,286	141,934
1970	116 632	3 706	120 338	128,563	4,085	132,648
1971	172 860	4 354	177 213	190,542	4,799	195,341
1972	189 251	7 255	196 506	208,610	7,997	216,607
1973	271 469	6 125	277 593	299,238	6,751	305,989
1974	317 689	8 553	326 242	350,192	9,428	359,620
1975	340 129	4 521	344 650	374,928	4,983	379,911
1976	363 771	5 587	369 358	400,989	6,159	407,148
1977	360 072	7 037	367 109	396,908	7,757	404,665
1978	451 158	4 650	455 808	497,317	5,126	502,443
1979	538 900	4 800	543 700	594,029	5,291	599,320
1980	545 900	2 200	548 100	601,746	2,425	604,171
1981	513 000	4 000	517 000	565,480	4,409	569,889
1982	517 800	3 500	521 300	570,600	3,900	574,500
1983	502 600	1 400	504 000	554,070	1 500	555,570
1984	583 200	5 500	588 700	642,800	6,100	648,900
1985	669 100	5 400	674 500	737,706	5,954	743,660
1986	665 800	900	666 700	734,069	992	735,061
1987	615 300	800	616 100	678,390	882	679,272

FARM FINANCES

Farm Input Price Index

This index measures the impact of price changes on the cost of a constant base-year basket of capital material and service inputs. Items included are weighted according to relative importance and grouped according to farm use.

TABLE 110

Farm Input Price Indices Western Canada (1981 = 100), 1974-1987

Year	Bldg. and Fencing	Machinery Replac- ment	Machinery Operation	Crop Pro- duction	Animal Pro- duction	Supplies and Services	Hired Farm Labour	Total Farm Inputs
1974	55.3	48.4	44.6	57.1	61.6	48.6	50.9	48.3
1975	59.8	56.2	52.0	70.6	61.1	54.8	60.5	54.5
1976	66.4	59.8	57.8	68.4	61.9	60.3	69.8	58.2
1977	71.6	64.2	62.2	65.5	61.6	64.7	77.5	59.7
1978	78.3	70.7	65.3	67.8	79.5	69.4	82.3	67.5
1979	87.4	79.9	70.5	74.9	100.7	76.3	87.2	79.1
1980	91.7	89.9	81.9	93.5	99.3	83.3	93.5	87.0
1981	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1982	106.8	106.3	112.8	98.2	99.7	109.2	106.3	103.4
1983	115.4	110.9	118.0	95.6	100.6	114.4	110.1	103.6
1984	114.2	113.5	122.2	98.7	102.3	120.0	114.7	106.6
1985	115.7	111.2	125.8	101.1	101.8	122.4	118.4	108.0
1986	123.2	113.5	119.2	102.1	108.7	122.6	121.6	108.8
1987	126.7	126.4	118.2	94.6	119.6	124.5	123.8	109.6

The groups in the above table consist of the following sub groups or items.

Building and Fencing - includes building replacement and repairs (materials and labour) and fencing construction and repairs.

Machinery Replacement - (1) includes tractors, combines, ploughs, disc harrows, grain drills, manure spreaders, balers, automobiles and trucks.

Machinery and Motor Vehicle Operation - (1) includes petroleum products, maintenance, licence and motor vehicle insurance.

Crop Production - (2) includes grain legume and grass seed, fertilizer, pesticides and twine.

Animal Production - (2) includes feeder livestock - cattle, hogs, chick and turkey poult feed - prepared and grain feed; and artificial insemination.

Supplies and Services - includes small tools, electricity, telephone and custom work.

Hired Labour - includes hourly, daily and monthly rates.

(1) Farm share only.

(2) Aggregations of only a partial list of inputs identifiable to the respective types of farming and should not be construed as production cost indices.

TABLE 111

Farm Product Price Indices (1981 = 100), 1981-1987

	1981	1982	1983	1984	1985	1986	1987
Total Index	100.0	96.3	94.6	101.9	94.3	85.0	78.2
Total Crops	100.0	91.5	90.5	98.6	89.3	69.5	56.7
Cereals	100.0	89.1	87.5	91.7	83.5	65.0	51.7
Oilseeds	100.0	98.8	101.7	124.6	108.1	78.3	64.6
All Other Crops ¹	100.0	99.9	95.1	109.1	105.0	95.6	91.1
Total Livestock & Products	100.0	104.4	101.4	107.5	132.8	111.5	114.7
Cattle and Calves	100.0	96.3	99.1	106.9	101.8	106.9	116.9
Hogs	100.0	119.5	101.3	103.9	97.3	123.3	120.4
Poultry	100.0	100.7	100.3	111.5	104.8	103.2	100.4
Eggs	100.0	97.1	97.5	105.8	103.1	100.1	96.9
Dairy	100.0	108.6	110.6	116.0	115.3	118.8	117.4
Other Livestock & Products ²	100.0	102.2	99.5	94.7	87.4	82.8	92.2

¹ Includes fruits, vegetables (including potatoes), sugar beets and sunflowerseeds.

² Includes lamb, honey and fur.

The Farm Product Price Index (FPI), formerly called Index Numbers of Farm Prices of Agricultural Products, gives a measure of the change over time in the prices received by farmers for agricultural commodities at the first point of sale.

The Index is based on products accounting for about 95 per cent of total farm cash receipts.

The price information used in compiling the index comes from a monthly survey of farm correspondents (Statistics Canada), administrative data. Bonuses and premiums are included in the prices but storage, transportation costs, processing and handling charges are excluded.

Correspondents report the average prices prevailing in an area after grades are considered.

The average prices would vary due to price and/or quality changes. In effect, the Index does not measure pure price change but only the change in revenue to farmers per unit of product marketed. Adjustments for seasonal variation in prices are not made.

TABLE 112

Manitoba Farm Cash Income, 1953-1987

Year	Crop Sales	Livestock Sales - thousand dollars -	Other Sources	Total
1953	130,172	84,299	4,667	219,138
1954	93,497	88,917	5,901	188,315
1955	79,121	87,825	11,423	178,369
1956	114,421	88,360	8,264	211,045
1957	97,046	94,782	6,304	198,132
1958	100,752	115,667	14,384	230,803
1959	112,999	109,284	8,245	230,528
1960	113,719	103,086	16,032	232,837
1961	114,253	119,657	8,851	242,761
1962	136,379	109,213	17,125	262,717
1963	147,707	116,270	7,771	271,748
1964	170,778	122,823	7,929	301,530
1965	184,173	149,892	8,548	342,613
1966	200,084	168,704	9,091	377,879
1967	193,198	172,997	8,607	374,802
1968	187,754	170,703	6,406	364,863
1969	168,823	175,081	7,162	351,066
1970	128,703	201,087	11,637	341,427
1971	165,596	193,326	10,661	369,583
1972	235,561	237,785	18,834	492,180
1973	285,653	327,613	18,119	631,385
1974	486,070	335,523	8,939	830,532
1975	572,231	350,536	19,836	942,603
1976	504,787	356,367	31,275	892,429
1977	491,271	379,087	23,266	893,624
1978	621,181	499,187	21,614	1,140,982
1979	754,137	562,649	10,086	1,326,872
1980	865,645	595,328	19,551	1,480,524
1981	1,001,554	605,965	50,770	1,658,289
1982	1,022,484	660,070	21,155	1,703,709
1983	1,122,338	613,634	33,952	1,769,924
1984	1,231,192	682,856	39,370	1,953,418
1985	1,240,059	716,242	37,169	1,993,470
1986	1,298,123	760,509	27,564	2,086,196
1987	1,100,579	804,503	168,031	2,073,113

TABLE 113

Manitoba Farm Cash Income From Crop Sales, 1953-1987

Year	Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Other Crops	Total Crops
- thousand dollars -							
1953	63,175	13,143	36,981	8,003		8,870	130,172
1954	36,149	10,330	29,396	7,557		10,065	93,497
1955	29,975	6,331	24,266	10,394		8,155	79,121
1956	50,534	11,641	23,594	16,611		12,041	114,421
1957	46,184	10,354	14,425	11,143		14,940	97,046
1958	58,122	7,649	16,156	7,952		10,873	100,752
1959	66,990	6,548	18,724	11,113		9,624	112,999
1960	66,349	6,378	15,108	12,189		13,695	113,719
1961	81,410	5,522	10,367	12,603		4,351	114,253
1962	77,416	10,129	11,395	20,654		16,785	136,379
1963	91,003	12,478	9,362	16,707		18,157	147,707
1964	99,832	12,423	10,059	29,323		19,141	170,778
1965	110,968	11,593	12,172	25,320		24,120	184,173
1966	114,363	14,457	13,936	33,996		23,332	200,084
1967	120,418	12,171	15,830	20,655		24,124	193,198
1968	109,486	11,292	17,127	15,192		34,657	187,754
1969	72,057	12,886	13,268	25,685		44,927	168,823
1970	72,317	6,347	21,472	17,613		10,954	128,703
1971	77,144	7,747	31,961	14,710		34,034	165,596
1972	113,272	11,553	45,302	12,988		52,446	235,561
1973	120,963	15,684	69,946	38,535		40,525	285,653
1974	225,296	14,649	100,889	61,350		83,886	486,070
1975	287,418	28,879	99,019	38,140		118,775	572,231
1976	243,162	23,883	80,402	39,881		117,459	504,787
1977	182,534	22,151	70,867	42,100		173,619	491,271
1978	234,189	15,681	99,334	54,594		217,383	621,181
1979	281,267	6,200	102,939	77,247		286,484	754,137
1980	388,019	4,854	93,564	92,919		286,289	865,645
1981	473,516	6,973	147,752	74,343	75,337	223,633	1,001,554
1982	512,010	7,211	161,038	67,409	99,509	175,307	1,022,484
1983	582,919	8,464	160,290	107,918	120,997	141,314	1,121,902
1984	618,065	8,406	134,887	96,942	138,996	231,119	1,228,415
1985	517,057	7,674	152,892	124,168	138,738	299,530	1,240,059
1986	537,470	9,284	147,124	83,535	128,414	392,296	1,298,123
1987	400,602	7,947	62,038	63,313	105,621	461,058	1,100,579

TABLE 114 Manitoba Farm Cash Income From Livestock Sales, 1953-1987

Year	Cattle & Calves	Hogs	Sheep & Lambs	Dairy & Supplementary Payments — thousand dollars —	Poultry & Eggs	Other Livestock & Products	Total Livestock
1953.....	28,452	14,755	443	21,379	19,270	3,982	88,281
1954.....	30,046	16,441	411	21,874	20,145	4,839	93,756
1955.....	28,153	16,405	454	22,806	20,007	5,644	93,469
1956.....	28,356	14,996	406	23,051	21,551	5,493	93,853
1957.....	35,105	15,717	449	22,834	20,677	5,418	100,200
1958.....	46,556	20,501	484	25,040	23,086	5,375	121,042
1959.....	39,920	23,185	461	24,144	21,574	5,558	114,842
1960.....	40,298	17,884	466	23,868	20,570	5,107	108,193
1961.....	51,535	22,356	527	24,084	21,155	5,121	124,778
1962.....	44,074	20,628	445	24,096	19,970	5,012	114,225
1963.....	48,095	19,440	523	23,984	24,228	5,498	121,768
1964.....	51,026	23,582	544	23,699	23,972	5,443	128,266
1965.....	71,573	27,415	462	24,209	26,233	6,997	155,935
1966.....	78,326	35,084	346	24,484	30,464	6,567	172,842
1967.....	80,557	37,280	325	27,390	27,445	6,209	174,481
1968.....	76,234	36,074	244	28,388	29,763	5,323	170,713
1969.....	68,167	44,324	255	27,592	34,743	5,476	176,516
1970.....	81,239	58,021	213	27,247	34,367	4,884	202,614
1971.....	85,593	51,211	362	27,642	28,518	4,605	194,460
1972.....	105,548	66,293	362	32,096	33,486	6,342	240,214
1973.....	132,136	104,071	402	36,909	54,095	8,235	330,442
1974.....	131,791	94,758	497	52,246	56,231	8,046	334,274
1975.....	152,366	87,866	390	60,273	49,641	7,840	348,245
1976.....	155,618	79,877	383	61,829	58,769	9,633	356,367
1977.....	178,756	78,230	432	63,711	57,535	11,013	378,406
1978.....	260,375	105,026	657	67,705	59,492	15,302	498,187
1979.....	297,132	115,682	694	73,176	68,586	17,136	562,649
1980.....	308,756	117,432	860	85,606	75,391	17,398	595,555
1981.....	274,903	138,722	1,227	96,938	86,165	18,441	605,965
1982.....	287,429	169,360	1,321	106,036	86,607	19,465	660,070
1983.....	253,864	155,201	1,507	108,734	87,218	18,107	613,634
1984.....	276,706	185,662	1,552	116,172	95,984	17,985	682,815
1985.....	300,737	194,512	2,084	113,305	97,182	19,357	716,242
1986.....	293,773	241,855	1,958	117,410	97,887	18,254	760,509
1987.....	322,550	252,784	1,883	121,317	98,220	18,820	804,503

TABLE 115

Manitoba Farm Cash and Overhead Expenses, 1953-1987

Year	Machinery Operation	Dep. Bldgs. & Mach.	Interest on Debt	Rent & Taxes	Hired Labour	Feed & Seed Bought Comm.	Fert.	Other	Total Value
- thousand dollars -									
1953.....	39,064	32,499	5,953	15,715	11,926	8,234	3,377	10,749	127,517
1954.....	37,342	33,181	6,061	13,416	11,136	9,374	2,386	10,757	123,653
1955.....	39,251	31,983	6,472	14,467	10,256	10,119	1,526	10,928	125,002
1956.....	41,176	31,249	6,412	16,759	11,058	11,055	1,571	11,797	131,077
1957.....	41,682	31,986	6,373	15,379	11,523	10,594	1,666	11,569	130,772
1958.....	41,396	32,397	6,662	16,862	11,930	12,324	1,584	12,849	136,004
1959.....	43,585	32,644	7,228	17,536	12,024	12,904	2,120	14,100	142,141
1960.....	46,518	33,692	7,790	19,166	12,108	13,611	2,213	15,200	150,298
1961.....	46,028	33,971	8,833	18,882	12,571	14,420	3,494	14,940	153,139
1962.....	47,540	34,777	10,109	21,110	12,338	21,753	3,237	17,074	167,938
1963.....	47,953	36,971	11,635	22,290	11,507	17,930	4,558	19,467	172,311
1964.....	49,613	40,289	14,119	22,339	11,530	19,514	5,925	21,931	185,260
1965.....	49,989	44,160	15,942	23,434	14,281	19,724	7,564	24,628	199,722
1966.....	51,551	48,150	17,948	23,829	14,341	24,487	15,302	27,966	223,574
1967.....	53,438	52,593	20,205	24,749	15,565	32,100	18,521	31,160	248,331
1968.....	54,919	55,967	23,593	25,961	15,964	28,058	24,772	33,104	262,338
1969.....	56,353	56,245	27,315	25,241	15,881	28,373	13,050	30,188	252,646
1970.....	57,573	55,633	22,173	24,938	15,943	29,359	10,906	30,543	247,068
1971.....	60,949	53,478	22,275	27,272	16,228	33,102	15,780	45,052	274,136
1972.....	65,567	55,190	31,487	25,253	16,891	39,154	18,903	54,726	307,171
1973.....	76,247	60,089	28,210	35,301	18,925	55,705	26,708	64,960	366,145
1974.....	96,805	77,967	38,512	40,800	22,921	76,773	36,732	82,115	472,625
1975.....	105,862	104,760	43,997	50,074	26,900	79,722	59,390	98,024	568,729
1976.....	116,982	129,358	57,735	54,549	28,174	83,510	65,274	123,722	659,304
1977.....	129,142	144,682	63,062	62,715	31,050	84,556	73,516	146,418	735,141
1978.....	147,582	164,248	81,506	75,758	35,121	88,146	101,402	161,076	854,839
1979.....	162,145	191,918	118,584	92,548	41,255	116,498	133,540	199,682	1,056,170
1980.....	180,539	222,211	147,996	104,338	47,215	158,401	145,361	220,596	1,226,657
1981.....	246,184	249,706	210,582	103,385	63,176	158,356	162,959	255,297	1,449,645
1982.....	269,860	267,342	187,575	118,398	71,993	161,179	167,540	259,353	1,503,240
1983.....	286,439	276,870	163,092	121,876	68,005	166,135	188,069	270,255	1,540,741
1984.....	290,813	276,941	167,241	129,148	75,745	186,358	211,073	279,483	1,616,802
1985.....	292,905	261,637	160,585	134,435	84,053	175,863	218,748	322,230	1,650,456
1986.....	273,253	269,889	152,451	136,852	91,690	168,586	198,446	299,588	1,590,755
1987.....	280,066	260,609	144,972	107,417	93,019	162,309	168,679	320,524	1,537,595

TABLE 116

Manitoba Farm Income Summary, 1953-1987

Year	Total Cash Receipts	Income in Kind	Realized Gross Income	Operating & Dep. Cost - million dollars -	Realized Net Income	Value of Inventory Change	Total Net Income
1953	219	15	235	128	107	2	109
1954	188	14	202	124	79	-12	66
1955	178	13	191	125	66	18	84
1956	211	13	224	131	93	32	124
1957	198	13	211	131	81	-12	68
1958	231	14	245	136	109	16	124
1959	231	13	243	142	101	-4	97
1960	233	12	245	150	94	8	103
1961	243	12	255	153	102	-57	45
1962	263	11	274	168	106	53	159
1963	272	11	283	172	110	-4	107
1964	302	10	312	185	127	29	156
1965	343	11	354	200	154	10	164
1966	378	10	388	224	165	-27	137
1967	375	10	385	248	136	16	152
1968	365	10	375	262	112	51	163
1969	351	10	362	253	109	9	118
1970	341	10	351	247	104	-15	89
1971	370	9	378	274	104	48	152
1972	492	10	502	307	195	-26	169
1973	631	12	644	366	278	93	371
1974	831	12	842	473	370	-50	319
1975	943	11	954	569	385	12	397
1976	892	14	906	659	247	35	282
1977	894	13	907	735	172	117	289
1978	1,141	15	1,156	855	301	49	350
1979	1,327	17	1,344	1,056	288	-42	246
1980	1,474	21	1,501	1,227	274	-228	46
1981	1,658	21	1,680	1,450	230	190	420
1982	1,703	20	1,723	1,503	220	80	300
1983	1,770	20	1,790	1,541	249	-166	83
1984	1,948	19	1,970	1,617	353	14	368
1985	1,993	17	2,010	1,650	360	290	649
1986	2,086	19	2,105	1,591	514	-93	421
1987	2,073	20	2,093	1,538	555	-53	502

TABLE 117

Total Net Income Per Farm, Manitoba, 1953-1987

Year	Farms	Total Net Income (Production Minus Cost) - dollars per farm -	Cash (Sales)
1953	51,250	2,128	4,276
1954	50,500	1,312	3,729
1955	49,750	1,693	3,585
1956	49,201	2,525	4,290
1957	47,900	1,423	4,136
1958	46,700	2,660	4,942
1959	45,600	2,134	5,055
1960	44,400	2,317	5,244
1961	43,306	1,035	5,606
1962	42,600	3,022	6,167
1963	41,900	2,543	6,486
1964	41,200	3,780	7,319
1965	40,500	4,053	8,460
1966	39,747	3,459	9,507
1967	38,700	3,934	9,685
1968	37,700	4,319	9,678
1969	36,700	3,210	9,566
1970	35,800	2,480	9,537
1971	34,981	4,350	10,565
1972	34,400	4,902	14,308
1973	33,825	10,957	18,666
1974	33,250	9,605	24,978
1975	32,675	12,144	28,847
1976	32,104	8,795	27,798
1977	31,600	9,145	28,279
1978	31,000	11,304	36,806
1979	30,500	8,052	43,504
1980	30,000	1,543	49,351
1981	29,442	14,207	56,346
1981	29,300	9,162	57,063
1983	29,000	1,889	59,340
1984	29,000	11,188	67,122
1985	28,700	23,057	70,479
1986	27,336	15,407	76,096
1987	27,336	18,379	70,140

TABLE 118

Price Index of Farm Products (1981 = 100)

1981	100.0	1984	101.9
1982	96.3	1985	94.3
1983	94.6	1986	85.0
		1987	78.2

WEATHER

Comparative Precipitation at Winnipeg

TABLE 119A Monthly Precipitation in Manitoba, 1962-1987 — Metric

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1962	22	40	30	17	132	54	155	173	16	18	55	11	723
1963	7	29	18	90	66	87	54	53	16	20	15	27	482
1964	17	5	50	54	34	119	22	71	35	6	16	31	460
1965	6	14	14	65	91	60	80	34	65	14	44	38	525
1966	9	10	41	47	38	36	86	105	18	22	26	21	459
1967	21	9	17	73	28	50	111	57	23	45	15	21	470
1968	21	5	13	32	99	83	144	143	59	40	4	9	652
1969	48	9	10	25	77	105	101	57	61	27	9	19	548
1970	23	15	27	65	87	50	70	75	112	27	27	23	601
1971	11	4	44	60	47	76	115	17	50	72	22	6	524
Average 1962-1971	18.5	14.0	26.4	52.8	69.9	72.0	93.8	78.5	45.5	29.1	23.3	20.6	544.4
1972	16	10	20	13	29	50	60	103	61	25	10	25	422
1973	3	6	14	21	103	88	123	66	82	37	40	19	602
1974	39	11	15	59	156	18	32	110	46	5	6	13	510
1975	46	16	19	45	48	120	58	133	42	38	13	17	595
1976	30	23	23	32	10	183	37	59	10	2	1	18	428
1977	12	21	10	5	178	88	85	90	148	30	29	19	715
1978	10	8	11	23	123	51	18	83	83	10	43	21	462
1979	9	20	45	73	93	65	23	76	25	16	15	11	471
1980	34	17	13	0	8	45	24	110	86	33	25	11	406
1981	23	3	15	13	48	90	39	104	72	60	6	7	480
Average 1972-1981	22.2	13.5	18.5	28.4	79.6	79.8	54.2	86.9	65.5	25.6	18.8	16.1	509.1
1982	26	8	36	13	23	54	107	59	58	62	6	32	484
1983	13	15	66	6	29	139	30	85	53	22	16	6	480
1984	12	8	12	47	30	228	38	21	62	99	27	22	606
1985	11	13	7	16	64	67	34	218	29	29	44	14	546
1986	9.6	12.9	16.9	98.3	25.2	59.2	118.0	17.0	47.5	11.6	48.4	6.4	471
1987	21.3	17.5	22.7	38.5	65.7	80.1	75.9	75.2	53.3	30.9	25.2	19.2	525.5
Average 1982-1987	15.5	12.4	26.8	36.5	39.5	104.6	67.1	79.2	50.5	42.4	27.8	16.6	518.8

TABLE 119B

Monthly Precipitation in Manitoba, 1962-1987 — Imperial

	Jan.	Feb.	March	April	May	June	July — inches —	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1962.....	0.87	1.57	1.19	0.67	5.21	2.11	6.11	6.83	0.62	0.73	2.15	0.42	28.48
1963.....	0.26	1.16	0.73	3.56	2.59	3.43	2.12	2.09	0.63	0.79	0.58	1.05	18.99
1964.....	0.66	0.20	1.98	2.14	1.34	4.69	0.98	2.80	1.36	0.23	0.62	1.20	18.10
1965.....	0.22	0.55	0.53	2.55	3.60	2.37	3.15	1.36	2.55	0.57	1.74	1.51	20.70
1966.....	0.37	0.41	1.61	1.85	1.50	1.41	3.38	4.14	0.71	0.85	1.03	0.83	18.09
1967.....	0.81	0.37	0.69	2.86	1.11	1.98	4.37	2.25	0.89	1.78	0.58	0.83	18.52
1968.....	0.84	0.19	0.52	1.27	3.90	3.26	5.66	5.63	2.31	1.59	0.15	0.35	25.67
1969.....	1.87	0.34	0.39	1.00	3.02	4.13	3.99	2.25	2.40	1.07	0.37	0.74	21.57
1970.....	0.90	0.59	1.08	2.57	3.41	1.99	2.74	2.95	4.41	1.05	1.05	0.92	23.66
1971.....	0.42	0.18	1.72	2.37	1.85	2.99	4.53	0.67	1.96	2.84	0.88	0.23	20.64
Average 1962-1971.....	0.73	0.55	1.04	2.08	2.75	2.83	3.69	3.09	1.79	1.15	0.92	0.81	21.43
1972.....	0.63	0.41	0.79	0.51	1.14	1.98	2.37	4.06	2.41	0.97	0.41	1.00	16.88
1973.....	0.10	0.25	0.54	0.83	4.06	3.47	4.84	2.58	3.23	1.46	1.58	0.75	23.69
1974.....	1.54	0.44	0.60	2.31	6.14	0.70	1.26	4.32	1.81	0.21	0.22	0.51	20.06
1975.....	1.80	0.61	0.74	1.80	1.86	4.73	2.29	5.22	1.64	1.50	0.51	0.67	23.37
1976.....	1.17	0.91	0.91	1.24	0.41	7.19	1.45	2.32	0.39	0.10	0.03	0.72	16.84
1977.....	0.49	0.82	0.39	0.20	7.00	3.48	3.36	3.53	5.83	1.19	1.12	0.74	28.15
1978.....	0.40	0.30	0.45	0.90	4.83	2.03	2.38	0.73	3.25	0.40	1.68	0.82	18.17
1979.....	0.35	0.79	1.78	2.89	3.67	2.56	0.91	3.00	0.98	0.61	0.58	0.44	18.56
1980.....	1.34	0.69	0.52	0	0.31	1.77	0.93	4.32	3.37	1.30	0.98	0.43	15.96
1981.....	0.91	0.13	0.57	0.50	1.87	3.56	1.54	4.08	2.85	2.35	0.23	0.29	18.88
Average 1972-1981.....	0.87	0.53	0.73	1.12	3.13	3.14	2.13	3.42	2.58	1.01	0.74	0.63	20.04
1982.....	1.01	0.31	1.41	0.52	0.92	2.13	4.21	2.32	2.29	2.44	0.22	1.25	19.03
1983.....	0.50	0.59	2.58	0.25	1.15	5.48	1.17	3.35	2.08	0.85	0.64	0.22	18.86
1984.....	0.48	0.31	0.46	1.85	1.17	8.97	1.51	0.85	2.44	3.90	1.05	0.88	23.87
1985.....	0.44	0.53	0.28	0.63	2.52	2.64	1.34	8.58	1.14	1.14	1.73	0.55	21.50
1986.....	0.38	0.51	0.67	3.87	0.99	2.33	4.65	0.67	1.87	0.46	1.91	0.25	18.56
1987.....	0.84	0.69	0.89	1.52	2.59	3.15	2.99	2.96	2.10	1.22	0.99	0.76	20.69
Average 1982-1987.....	0.61	0.49	1.06	1.44	1.56	4.12	2.64	3.12	1.99	1.67	1.09	0.65	20.43

TABLE 120

Selected Seasonal Data for Manitoba, 1953-1987

Year	Assiniboine River Entirely Clear of Ice at Winnipeg	Date Wheat Seeding Became General	Wheat Harvest Begun Generally	Ground Frozen So as to Stop General Field Work
1953.....	April 15	May 5	Aug. 15	Nov. 21
1954.....	April 18	May 18	Aug. 16	Nov. 25
1955.....	April 11	May 20	Aug. 5	Nov. 2
1956.....	April 26	May 14	Aug. 15	Nov. 10
1957.....	April 19	May 4	Aug. 15	Nov. 15
1958.....	April 10	April 22	Aug. 20	Nov. 17
1959.....	April 15	April 23	Aug. 13	Nov. 3
1960.....	April 16	May 21	Aug. 19	Nov. 7
1961.....	April 21	May 15	Aug. 14	Nov. 5
1962.....	April 26	June 5	Sept. 3	Nov. 15
1963.....	April 12	June 1	Aug. 10	Nov. 20
1964.....	April 22	May 18	Aug. 17	Nov. 10
1965.....	April 16	May 26	Aug. 27	Nov. 7
1966.....	April 13	May 25	Aug. 23	Nov. 4
1967.....	April 23	May 20	Aug. 19	Nov. 21
1968.....	April 12	May 22	Aug. 27	Nov. 7
1969.....	April 19	May 21	Aug. 26	Nov. 11
1970.....	April 25	June 2	Aug. 25	Nov. 16
1971.....	April 19	May 18	Aug. 26	Oct. 30
1972.....	April 20	May 15	Aug. 29	Oct. 27
1973.....	April 5	May 10	Aug. 23	Oct. 30
1974.....	April 20	June 4	Sept. 10	Nov. 18
1975.....	April 18	May 16	Aug. 21	Nov. 20
1976.....	April 11	May 11	Aug. 14	Dec. 2
1977.....	April 12	May 10	Aug. 12	Nov. 22
1978.....	April 17	May 14	Aug. 31	Nov. 9
1979.....	April 25	June 7	Sept. 10	Nov. 22
1980.....	April 2	May 1	Aug. 26	Nov. 26
1981.....	April 2	May 2	Aug. 25	Nov. 28
1982.....	April 21	May 10	Aug. 30	Nov. 16
1983.....	April 7	May 11	Aug. 12	Nov. 17
1984.....	April 10	May 7	Aug. 9	Nov. 18
1985.....	April 4	May 5	Aug. 12	Nov. 19
1986.....	April 7	May 25	Aug. 26	Nov. 6
1987.....	April 5	May 5	Aug. 8	Nov. 9

SOURCES AND METHODS

Preparation of this Yearbook was similar to that used since the series began in 1963. A large percentage of the material presented for the current year is based on preliminary estimates derived from sample data. Revisions of estimates made in previous Yearbooks are included in this report.

The regular statistics program of Manitoba Agriculture is the major source of material for the Yearbook. This involves close cooperation with Statistics Canada and coordination of information from many sources, including Agriculture Canada, other government and private agencies and business firms dealing in farm products and supplies. Farmers contributed through livestock and crop reporting, as did field and other staff members of Manitoba Agriculture. Basic data from Statistics Canada were derived from mail surveys in cooperation with Manitoba Agriculture. Survey samples vary from one percent to ten percent of farmers, depending on the type of information required.

Regional data for crop districts in the Yearbook can be supplemented by more detailed data for municipalities from the 1981 Census of Agriculture. The Census also provides some information on features of agriculture not covered in this Yearbook. Census division and crop district boundaries were changed in 1976 and Statistics Canada's estimates of crop production using the new boundaries were first made in 1977. Thus, small area estimates since 1977 are not comparable with earlier data.

Some figures may not add up due to rounding.

Crops

Total Value of Production. This includes all crops grown on farms in the current year for sale, feed, seed and home consumption at prevailing market prices during the crop year. Disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. With few exceptions, production value for each crop represents value to the producer.

Prices. Prices used to calculate production value for most crops are those farmers receive at the shipping point. This is regarded as farm value because freight, handling and other marketing charges are deducted. Transport costs incurred by farmers in delivering grain to elevators are included with farm expenses. Average prices for all crops are estimated final prices, based on Manitoba Agriculture market outlook work. As a result, production value is more comparable with previous years, since initial payments would grossly underestimate crop value. Prices are subject to revision after all relevant sales and payments have been made. Small revisions will be necessary in current prices of crops when more information on sales and payments is available.

Areas. Major crops areas are estimated by Statistics Canada in cooperation with Manitoba Agriculture. Minor crops, such as sugar beets, sunflowers and mustard seed, are estimated through contacts with dealers, processors and Department field staff. Estimates, in most cases, are for seeded area while yields are reported on the land devoted to a crop at seeding time. Oats and barley are on a harvested area basis. The November estimate (Statistics Canada 22-002) contains latest area and yield estimates, with a few exceptions as noted.

Yields. Major crop yields are derived from Statistics Canada surveys, integrated with the Manitoba crop reporting program. Minor crops are estimated mainly through the latter and revised as market data require. In some cases, yield multiplied by area may not exactly equal production, due to the rounding of one or more of the three items.

Wheat. Quality data on protein content are obtained from the Canadian Grain Commission. Distribution by grade is based on Wheat Board Special Questionnaire No. 1, November, when elevator agents estimate the amounts of deliverable grain in each grade. Initial payments to producers are reported by the Wheat Board. Thunder Bay selling prices are recorded by the Canadian Grain Commission. Prices listed are rounded to the nearest cent while marketing data are provided by the Canadian Grain Commission. Such data are also published by Statistics Canada in Coarse Grains Quarterly and Wheat Review.

Oats and Barley. Distribution by grades and initial payments have the same sources as wheat. Since private firms, in addition to the Wheat Board, sell these grains, Lakehead selling prices are Winnipeg Commodity Exchange cash quotations. Final prices are more closely represented than the Wheat Board selling price alone. Marketing data are from the same sources as wheat.

Flaxseed, Canola (Rapeseed) and Other Crops. These were treated, for the most part, similarly to the above. Regional data were not always available but verbal description was used when possible. Sugar beets are on a harvested area basis. Values are at the factory level, obtained from the Manitoba Sugar Company, except for the current crop which is estimated. Deduction of freight would not allow the remaining figure to properly indicate the actual sugar beet price, as it would vary considerably depending on the farm location. Forage seed data are from Plant Products Division, Agriculture Canada and the forage specialist, Manitoba Agriculture.

Horticultural Crops. Included are vegetables, potatoes, fruit and ornamentals. The commercial vegetable area and prices are estimated jointly by Statistics Canada and Manitoba Agriculture. An estimate of minor crops, such as peppers, eggplants, vine and specialty crops, is included in the value of vegetable production. Value of noncommercial vegetables represents the value of home-grown vegetables in the province. The processing potato area was obtained from the processors.

Different levels of prices were used with respect to processing, fresh market and farm-consumed potatoes to arrive at the total value. Other horticultural values, including fruit and ornamentals, are derived also in consultation with the provincial horticulturists.

In addition to the major crops listed, production of field beans, fababeans, canary grass seed and lentils also took place.

Sugar beet production value estimates for the current year are based on the per unit value of product sold to date and does not include a final payment to be made when the entire crop has been sold.

Livestock

Production value of cattle and hogs includes inventory change. A gain in numbers on farms is a part of production but a decline during the year is a loss in production. Inventory figures are from Statistics Canada surveys. Animals in the category "local slaughterings" are those farmers kill and eat, kill and sell, or sell locally for slaughter and consumption. These animals, as well as commercial marketings, are a part of production. Inshipments are those animals (1) returned to farms for further feeding after being marketed from other Manitoba farms or (2) brought in from other provinces, usually Saskatchewan. To avoid double counting in the value of production, inshipments are deducted. Commercial marketing include direct exports to other provinces and the United States, of animals which do not go through the stockyards but are of Manitoba origin.

Total values of all classes of livestock marketed were estimated from Agriculture Canada's publication "Canada Livestock and Meat Trade Report". From these figures the dollar value per animal, less marketing costs, is calculated and applied to animals produced.

Market and Quality. Data for cattle and hogs are obtained principally from Agriculture Canada's publication "Canada Livestock and Meat Trade Report". Prices are from the same Department and pertain to Stockyard sales, upon which the value of all marketings is based. Calves are defined, generally, as under one year of age or 249 kilograms (550 pounds).

Sheep. Sources are the same as those for cattle and hogs. Production calculation is based on marketings only, due to the small number involved. Wool sources are from Statistics Canada's publications 23-203, 23-204 and 23-205.

Dairy. Production figures are obtained from Statistics Canada, primarily publication 23-001. Production values and itemization were supplied by the Agricultural Division of Statistics Canada. The supplementary payments were not allocated to the different classes of milk but were added in the total value of dairy production.

Poultry. Inventory figures are from the same source as other livestock. Monthly prices are the average of recorded weekly prices from Agriculture Canada. Production values for eggs were obtained from Statistics Canada, publication 23-003. The value of hatching eggs was estimated by Manitoba Agriculture. Statistics on Manitoba egg quota allocation and inventory are obtained from the Tenth Annual Producers Conference Report, Canadian Egg Marketing Agency.

Broiler production was calculated on the basis of registered marketings. Roasting chickens were calculated according to placements as indicated by Agriculture Canada's Hatchery Outlook publication and allowing for a ten percent mortality figure. Broiler turkeys are listed equal to registered marketings of turkeys, 4.5359 kilograms and under (ten pounds and under), and roasting birds are estimated according to marketings and other information. Ducks are listed according to marketings plus an on-farm allowance. Geese are shown according to marketings, exports and Agriculture Canada survey data. Poultry meat prices are calculated per bird according to average weights and information on recorded prices by Agriculture Canada.

Other Products

Honey. Production estimates are made cooperatively by Statistics Canada and Manitoba Agriculture.

Fur. Data are obtained from Statistics Canada's publication 23-207. They cover only production from fur farms.

Forest. Products are those listed as sales in Statistics Canada farm income estimates.

Resources

Most resource information for Census years are from Statistics Canada, Census Division. Annual summer/fallow estimates since 1976 were made cooperatively by Statistics Canada and Manitoba Agriculture.

Farm Numbers. These are taken from the Census according to the current definition of a farm. In 1966 and 1971, a farm was defined as an agricultural holding of 0.40469 hectares (one acre) or more with sales during the previous twelve months of \$50.00 or more. Previous definitions were less restrictive. The 1981 Census definition is an agricultural holding with sales of agricultural products during the past twelve months of \$250.00 or more. Farm estimates for intervening years are unofficial estimates by Manitoba Agriculture.

Labour Force. Statistics are from the Labour Census, Statistics Canada 94-921 and the 1981 Census of Agriculture 96-908. Wage rates in August come from Statistics Canada.

Cash and Overhead Expenses. These data are taken from Farm Operating Expenses and Depreciation Charges published in Statistics Canada's Farm Net Income publication 21-202.

Machinery. Sales data are from the Canadian Farm and Industrial Equipment Institute.

Fertilizer. Sales data are from the Western Canada Fertilizer Association.

Herbicide. Data are obtained from annual Manitoba Agriculture surveys in contact with wholesalers and manufacturers.

Price Index of Purchases by Farmers. These data come from Statistics Canada's publication 62-002, rounded to the nearest whole number. The indices were revised to 1971 and the base year changed from 1961 to 1971.

Land Values

Data were obtained from the records of land sales in Manitoba collected by the Manitoba Agricultural Lands Protection Board.

Income

Cash and net farm income data on a provincial basis are obtained from Statistics Canada publications. Statistics Canada's publication 21-202 (latest available issue) is the source for total cash income. The main source for farm cash details is Statistics Canada's publication 21-001 (latest available issue).

Calculations on a per farm basis are made by Manitoba Agriculture and may not reflect exact averages. Census farms, as a basis, are not the only contributors to total sales. Small units, not called farms, do sell produce but sales are almost negligible. Per farm figures are rounded to the nearest \$100.00. The price index of farm products is obtained from Statistics Canada's publication 62-003, rounded to the nearest whole number and approximated for the current year. Current year indices are subject to under-representation since they are based on initial prices for grains.

Agriculture in Perspective

Description in relation to Canada makes use of data with the same sources as similar material throughout the Yearbook for Manitoba.

Weather Data

These are obtained on a regular basis for the Manitoba Agriculture Reporting Program from the Weather Officer, Atmospheric Environment Service, Department of Environment, Room 1000, 266 Graham Avenue, Winnipeg, Manitoba.

Metric Conversion Factors

- 1 acre = 0.40469 hectares
- 1 pound = 0.45359 kilograms
- 1 ounce = 28.35 grams
- 1 Imperial ton = 0.907185 tonnes
- 1 Imperial bushel = 0.036368 cubic metres
- 1 Imperial gallon = 4.546 litres
- 1 Imperial fluid ounce = 28.413 millilitres
- 1 foot = 0.3048 metres
- 1 inch = 2.54 centimetres
- °C (Celsius) = 5/9 (° Fahrenheit - 32)

